

American Fruit Grower

WESTERN EDITION

DECEMBER • 1958



Are You Pruning for Profit?

raising.
ers be
a car.
a guess
ue and
shed by
ugh in-
ould be
praised.
uld be
ed, es-
res the
new -
sal, de
ll bring
rket.
not be
dealer
a, every
deter-
rived in
whole

NEW GAS SAVINGS

Ford—the only pickup with a modern Short Stroke Six engine—now offers even more economy! A new carburetor for this rugged, longer lasting 139 h.p. engine offers improved fuel metering in both idling and high-speed ranges — results in even better gas mileage!

She
should
partne
venient
have a
John
preside
Corp. n
America
that p
theory
"everyo
on time
paper."
He d
theory,
and Fe
a man
charge
than he
He ad
installi

New F-100 Styleside pickup with cab-wide box... gives you 23% more loadspace. Your choice of Short Stroke engines... Six or V-8.

GO FORD-WARD for savings

...with the thriftiest Six in any farm Pickup!



New 4-wheel drive pickups—Now get the sure-footed dependability of 4-wheel drive in $\frac{1}{2}$ or $\frac{3}{4}$ -ton trucks... at Ford's low prices! Positive traction in hub-deep mud, snow, sand; even up 60% grades! Available early 1959.

You'll get more out of a new Ford pickup because Fords have more to give... in comfort, economy, durability.

Just look at some of the extras Ford gives you. Loadspace—more than any conventional pickup. Ride—smoothest of any half-tonner. Economy—engineered-in right from the start with Ford's Short Stroke Six design. Ford's proven gas savings keep running costs low. Longer life—independent surveys prove, for the 13th straight year, Ford Trucks last longer.

Take the Ford-ward step and get ahead of truck costs! See your Ford Dealer soon!

Every Ford has SAFETY GLASS in every window

Go Ford-ward for savings

FORD TRUCKS COST LESS

... LESS TO OWN... LESS TO RUN... LAST LONGER, TOO!

NOW PREVENT FROST DAMAGE *with the* FMC *Tropic Breeze* WIND MACHINE

ACT NOW!

Anticipated orders will place heavy demand on factory production. Your immediate action is urged to insure delivery and installation before frost periods begin.



Putting Ideas to Work



FOOD MACHINERY AND CHEMICAL CORPORATION
Florida Division

General Sales Office—LAKELAND, FLORIDA
Plants: LAKELAND, FLORIDA—WOODSTOCK, VIRGINIA

FAST Tropic Breeze Wind Machines whirl into action at the flip of a switch. Provide wide area frost protection in 3 to 5 minutes. One man can supervise entire operation. No need of stand-by crews or heater refueling worries.

PROVED Thousands of Tropic Breeze Wind Machines in use by growers and nurseries in the West plus conclusive proof by university experimental stations are testimony to effective frost protection by these machines.

LOW COST Developed by a company with over 19 years of continuous experience in the field of frost protection, Tropic Breeze Wind Machines provide superior positive results for only pennies per acre per hour of operation.

CLEAN Tropic Breeze Wind Machines eliminate clutter. No smoke or grime problems to contend with. Machines occupy minimum space, fuel tanks can be buried out of the way of farm personnel and machines.

FREE ORCHARD ANALYSIS Trained *fmc* factory personnel will make a free analysis of your orchard, farm or nursery, study terrain, wind drift, planting closeness and height of trees and make specific recommendations without cost or obligation.

**FOOD MACHINERY AND CHEMICAL CORPORATION,
FLORIDA DIVISION**

Fairway Avenue, Lakeland, Florida

Please send me sales literature on Tropic Breeze Wind Machines.

Please have Sales Engineer contact me,

Company _____

Name _____

Title _____

Address (RFD) _____

City _____

Zone _____

State _____

NOW! A LOW COST ORCHARD DUSTER New BEAN-NIAGARA Cropmaster announced by *John* **BEAN**



thorough, controlled coverage • simple to operate • rugged, compact, lightweight

You get all these BIG features: 60 lb. hopper capacity • Properly designed, flexible 3" discharge outlet • Rugged welded sheet steel body, mounted on steel frame • Box-type fan runner construction reduced air friction • Powerful 12" fan and feed shaft insures proper coverage and even dust distribution • Skid-mounted, engine powered • Alemite lubrication system through-out • Working parts readily accessible for servicing



Up to 200 lb. hopper capacity • Power take off driven, tractor mounted with 3-point hitch • 180° blower head rotation for either side discharge, correct angle adjustment • Uniform, positive feed control • dual mechanical hopper agitation • Feed rate adjustable from tractor seat

SEE YOUR JOHN BEAN DEALER
Write today for more details



John BEAN

LANSING 4, MICH. SAN JOSE 1, CALIF.
Division of Food Machinery and
Chemical Corporation



American Fruit Grower

Cover design by George M. Ross
(Photo of winter orchard scene
by L. F. Addington)

VOL. 78

DECEMBER, 1958

No. 12

FEATURES

A Modern Pioneer.....	9
<i>By A. N. Pratt</i>	
Are You Pruning for Profit?.....	10
<i>By Wesley P. Judkins</i>	
100th Birthday.....	12
<i>By W. R. Martin, Jr.</i>	
Four Receive Gourley Award.....	19

APPLES

New Super-Red Sports.....	17
Frequent Storage Inspections.....	17

BERRIES

Get Ready for Winter.....	18
---------------------------	----

CHERRIES

Hardiness in Montmorency Cherries.....	21
--	----

CITRUS

Getting an Edge on Jack Frost.....	18
------------------------------------	----

GRAPES

Take Cuttings for Propagation Now.....	18
--	----

PEACHES

Mowing Tops of Peach Trees.....	21
---------------------------------	----

PEARS

Pear King of New Hampshire.....	17
<i>By Larston Farrar</i>	

PLUMS & PRUNES

New Prune Picking Machine.....	21
<i>By Neale Leslie</i>	

DEPARTMENTS

Letters to the Editor.....	5	Marketing.....	23
State News.....	13	Book Review.....	23
Fruit Pest Handbook.....	13	New for You.....	24
The Question Box.....	15	Editorials.....	30
Windfalls.....	20	Fruit Talk.....	30
Calendar of Coming Meetings.....	22	Fruit Growing Is Such Fun.....	30

E. G. K. MEISTER, *Publisher*

RICHARD T. MEISTER, *Editor*

Managing Editor, E. K. GOULD, Associate Editors: H. B. TUKEY, ELDON S. BANTA, Art Director, GEORGE M. ROSS, Production Manager, J. S. BENDER, EDWARD L. MEISTER, Director of Advertising

District Advertising Offices

NEW YORK: W. J. Martin and Company,
185 Madison Ave. Phone—Murray Hill
3-2865.

LOS ANGELES: McDonald-Thompson, 3727
West 6th St. Phone—Dunkirk 7-5391.

NEW JERSEY: W. J. Martin and Company,
612 Bernita St., Rivervale (Westwood P.O.).
Phone—Parkridge 6-1595.

SAN FRANCISCO: McDonald-Thompson, 625
Market St. Phone—Yukon 6-0647.

CHICAGO: Peck and Billingslea, Inc., 185 N.
Walash. Phone—Dearborn 2-0292.

SEATTLE: McDonald-Thompson, 1008 West-
ern Ave. Phone—Elliot 3767.

AMERICAN FRUIT GROWER is published by American Fruit Grower Publishing Co., Willoughby, Ohio. E. G. K. Meister, Publisher and Chairman of the Board; Edward L. Meister, President; Richard T. Meister, General Manager; Gilbert Meister, Vice-President. Subscription price \$1.00 per year in U.S. and possessions; to Canada and other foreign countries \$2.00. Single current copies 25c; copies over one year old 75c.

When changing your address, please send us old as well as new; send address label from your last copy; allow 5 weeks for the first copy to reach your new address.

Postmaster: Please send change of address "Form 3579" to AMERICAN FRUIT GROWER, Willoughby, Ohio.

LETTERS TO THE EDITOR

Can You Top This?

Dear Editor:

To the best of our knowledge there are no posted records for cherry picking, but 20 lugs per day has always been considered a pretty good day's harvest for one picker. Seasonal averages run considerably below this figure.

However, on the George McManus, Sr., farm at Traverse City, Mich., a 17-year-old youth named Harold Roberson, from



Champion tart cherry picker Harold Roberson.

Pleasant Plains, Ark., has a record to be proud of. Toward the end of the 1958 harvesting season, Roberson picked 49 full lugs of tart cherries in 12 hours.

McManus had all of Roberson's lugs set aside so that the weight could be checked to be sure the lugs were full measure. The truck containing Roberson's 49 lugs was sent to the processing plant separately. The official weight was 1380 pounds or an average of slightly over 28 pounds per lug, which is heavier than the average lug received at most plants. The cherries graded 95% U.S. No. 1.

Two of Roberson's fellow crew members attempted to outdo him the day following his record. Bill Gwaltney, of Bald Knob, Ark., ended up with 49 lugs weighing only 1320 pounds and Tom Marshall, of Passecal, Mo., with 42 lugs.

So Roberson holds the record for McManus orchards, which is certainly a good one for other pickers to shoot at.

George McManus, Jr.
Traverse City, Mich.

Faithful Subscriber

Dear Editor:

Received your hurry up renewal letter today. In reply would say maybe you, like me, have more places to put money than you have money to fill your obligations. I am one of the jobless set and couldn't get a job on a bet. I am considered too old to have a job and, like the lazy farmer, would not likely take it if I could get one. I will be 97 pretty soon.

This paragraph will interest you most. I find I have a lone dollar bill in my pants and I see you propose to pay transportation charges on it so here it goes. I will look joyfully forward to the interesting pages of the FRUIT GROWER.

Lovington, Ill.

John Idall

Prunings...

HAMMERED TO PULP

Gehl does it with the slashing fury of these rugged swinging knives

Here's five feet of fight that makes the toughest orchard prunings knuckle under and split up...shreds big windrows into a quickly decomposing layer of mulch.

The Gehl Shred-All does it with an army of swinging knives that tie into heavy work and never ask for quarter. They're free swinging...absorb shocks and jolts like a sponge. The cylinder is dynamically balanced for a perfect circle of operation...lets

you skim the ground safely.

Cutting tips reverse to give double life to the precision chisel edges. New tips are low cost...easy to install. Assure continuous shredding on the toughest jobs.

Complete offset drawbar lets you clip grass under low-hanging branches without bruising or picking fruit.

Check into the Gehl...and into Gehl lower prices. Your Gehl dealer has the facts. For folder mail the coupon.

GEHL BROS. MANUFACTURING CO.
Dept. SM-57, West Bend, Wisconsin

Please send me full shredding details on the Gehl line of Shred-All and Clean-Cut Shredders.

Name.....

Route.....

Town..... State.....

GEHL

100 YEARS
OF SERVICE

GEHL PUTS ALL PRICE FACTORS IN YOUR FAVOR

Entered as second class matter at Post Office at Willoughby, Ohio, under the Act of March 3, 1879. Additional entry at Mount Morris, Illinois.

YOU GET ***PROTECTION*** ***with* GLYODIN**

GLYODIN is the greatest value you can get in all-season protection against apple scab. This top-quality fungicide costs as little as 73¢ per 100 gallons of early spray and 55¢ per 100 gallons of cover spray, yet it brings you an unmatched combination of advantages.

GLYODIN is powerful protection against apple scab throughout the entire season. And it works perfectly with phenyl mercury for 48-hour "back-action" eradication of scab plus future protection.

GLYODIN is an ideal spreader-sticker as well as a superior fungicide, covering foliage and fruit with uniform protection. It makes the entire spray mixture stick better through rainy periods. Some insecticides are more effective with Glyodin than with other commonly used fungicides.

GLYODIN, used with sulfur or "Karathane" or "Mildex", provides highly efficient mildew and scab control. Risk of sulfur scald is lessened by using a reduced dosage of sulfur with Glyodin.

GLYODIN kills adult mites and nymphs on contact. It does not harm beneficial predatory insects which feed on mites. As a result, Glyodin often suppresses red mites and two-spotted mites without the expense of special mite sprays.

GLYODIN controls summer diseases of apples, such as sooty blotch, bitter rot, Brooks spot, fly speck and black rot. It's ideal for use with ferbam for control of rust and rots on apples and cherries.

GLYODIN gives foliage and fruit smooth, clear, transparent protection without reducing leaf efficiency and without discoloring fruit. It's safe to use in bloom sprays, and in pre-harvest sprays to prevent pin-point scab in storage.



Union Carbide Chemicals Company

Division of Union Carbide Corporation • 30 East 42nd Street • New York 17, New York

PLUS

*...the economical
top-quality*
**apple
fungicide**

GLYODIN saves time because it's a liquid that mixes quickly. In sprays, it's no more irritating than soap. It saves loading time, never clogs spray nozzles and leaves no sediment in the tank.

GLYODIN works equally well in dilute or concentrate sprays to provide the protection needed by trees to produce vigorous, dark-green foliage and big yields of clean fruit with the color and finish the market prefers. For efficiency and economy, **CRAG Glyodin** is your best buy! It's the scab spray that pays more ways in early sprays and cover sprays.

"Crag" and "Union Carbide" are registered trade marks of Union Carbide Corporation.



**GLYODIN Controls
Cherry Leaf Spot**

In addition to controlling apple scab, Glyodin is also highly effective against cherry leaf spot, providing all-season protection.

OUTPERFORMS THEM ALL...



John
BEAN

CONTROLLED PATTERN SPEED SPRAYERS®

4 NEW MODELS
2 ATTACHMENTS

Look inside for the true measure of sprayer performance. Efficient spray patterns result only by proper control of the air *within* the sprayer. Only John Bean's exclusive aerodynamic air handling gives you deep-penetrating pattern control for uniform, thorough tree coverage. This exclusive design feature assures maximum air volume per horsepower consumed, economical, even coverage with less spray materials and greatest rate-of-work capacity of any air sprayer.

Prove it to yourself. Your John Bean dealer will arrange a demonstration in *your* orchard. Select the model that fits your specific needs from the new Diamond Jubilee Speed Sprayer Models. Call him today.

Write now for free booklet, "What You Should Know About Air Carrier Spraying". Also ask for complete data on "Registered" SHUR-RANE Sprinkler Irrigation.

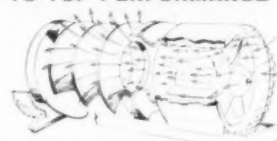
THE COMPLETE SPRAYER LINE



John BEAN LANSING 4, MICHIGAN
SAN JOSE 1, CALIFORNIA
Division of Food Machinery and Chemical Corporation



EXCLUSIVE AIR CONTROL...
KEY TO TOP PERFORMANCE



1. **FULL-SIZE BELL ENTRANCE** permits maximum air intake.
2. **EFFICIENT, AXIAL FLOW FAN** moves more air volume for its size than any other type.
3. **STRAIGHTENING SECTION** smooths out air turbulence for big volume drive.
4. **MULTIPLE, CURVING VANES** properly control and evenly distribute air output.
5. **REAR AIR SCOOP SECTION** channels bottom air into the pattern for added efficiency.

American Fruit Grower

• Fruit for Health •



Photos: *The Progressive Farmer*
Fruit growing is a family enterprise for the Tom Andersons, of Toone, Tenn., shown above. Tom, Jr., and Carolyn share their parents' pride in examining the "fruits" of their labor. Tom and his wife are pictured at left next to small plane which he uses for business trips.

A MODERN PIONEER

Tom Anderson's knowledge of fruit growing 24 years ago was as meager as the cotton land he took over was devoid of trees. Today he is a leading Tennessee grower

By A. N. PRATT

WHEN Thomas Anderson tucked his diploma from Bolivar High under his arm in 1934, his mind was made up about three things: he was not going to follow his older brother to University of Tennessee, he would

start an orchard, and there was a certain young teacher who would make a fruit grower a mighty fine wife.

Tom's dad had plenty of fair cotton land near Cloverport, some 8 miles from the nearest paved highway. He turned 100 acres over to Tom and staked him to a start with

30 acres of apple trees and 10 of peaches, which were planted in 1935.

All Tom knew about fruit growing came from visits to a small orchard owned by his high school principal, who had planted the "orchard seed" in Tom's mind in the first place and saw to it that Tom joined the Tennessee State Horticultural Society.

The best land "loaned" (later deeded) by Tom's dad had raised too many crops of cotton. Soil drainage was poor, and the peak elevation, if you could call it that, reared some 30 feet above the lowest acres.

"I knew just enough about fruit growing to know I didn't know enough to make a success of it, and I determined to learn all I could by visiting all the orchards which were within reasonable distance. It was really rough going. There wasn't a farm hand with orchard experience I could hire, and even our county agricultural agent couldn't help with my problems. After I joined the hort society, though, I got professional

(Continued on page 26)



Photo: *The Progressive Farmer*

Last year Tom sold out his bumper apple crop before the end of September.



One type of pruning platform used by eastern growers; well-pruned tree is sufficiently open so spray and dust materials can be applied easily.

Are You PRUNING FOR PROFIT?

A noted horticulturist reviews some of the basic principles of pruning you should follow to grow profitable crops

By **WESLEY P. JUDKINS**
Virginia Polytechnic Institute, Blacksburg

HOW often have you walked through your orchard and looked at your trees critically and asked yourself: "Am I pruning these trees in a way that will bring me the most profit? Which are the most important basic principles of pruning which I should follow? Am I too concerned about some practices which actually have little effect on the yield and quality of my fruit? Am I neglecting other methods that would give my trees longer life and more profitable crops?"

It may be desirable at this time, before the season gets too far along, to examine a few of the basic principles of pruning and consider how they should be applied to our orchards.

Possibly the most important effect of pruning is the fact that it dwarfs the tree. Every time we remove branches or twigs from a tree we remove some of the leaf surface. The leaves, as we all know, manufacture the food which is used for

the growth of the tree itself and for producing the fruits which are sold by the orchardist. When the leaf surface is reduced, the tree does not grow as fast and produces smaller crops of fruit.

The dwarfing effect is not confined just to the top of the tree and the fruit it produces. Since less food materials are produced, there is less to be transported to the roots. The roots absorb water and nutrients from the soil, but they are completely dependent on the top for food materials which they need for growth. A large vigorous top is necessary for a healthy extensive root system. If the root system is weak the tree will not be able to secure adequate water and fertilizer nutrient elements.

It is obvious that heavy pruning may lead us around in a vicious circle which will result in low yields and small profits. The pruning must be heavy enough to maintain a strong, well-shaped tree, which is open enough so that spray may penetrate to the inside and control diseases and insects. Excessive prun-

ing, however, may cause serious dwarfing of all parts of the tree and should be avoided unless absolutely necessary.

The dwarfing which results from the heavy pruning of young trees will cause a serious delay in the age at which the first crop is produced. It is essential that some corrective pruning be given during the early years of the orchard, but this should be kept at an absolute minimum.

The double heading of young trees which promotes the development of a good number of branches along the trunk is recommended. Then, when the best scaffold branches are selected, the others should be cut back to about half their length. This provides a large leaf surface which promotes vigorous growth, and also encourages the development of wide-angled crotches. This method produces trees which are large and strong, and come into bearing at a young age.

Narrow-angled crotches usually are weaker than wide-angled crotches. This basic principle has



"Old way" of pruning: inside is hand pruned.



After hand pruning, machine prunes the tops.

been emphasized for many years and should be considered when the tree is pruned. Bark inclusions in the narrow-angled crotch and the lack of strong connecting tissue between the main and the side branch are the causes of the weakness.

We must appreciate that all narrow-angled crotches are not weak. We have all walked through mature, productive orchards which may have a large number of narrow crotches. Therefore, do not follow heavy corrective pruning practices which will seriously reduce yields, just to remove narrow-angled crotches. Attempt to promote wide-angled crotches as the tree is trained, and appreciate that certain varieties produce relatively strong trees with crotches which may be narrower than we would prefer.

It is obvious that since pruning reduces the size of the tree and its food supply, it also will reduce the yield of fruit. This is not entirely bad, however, since the pruning operation will increase the size, color, and quality of the fruits which are produced. The larger, more highly-colored fruit will be of a better grade and usually will give the grower a higher return per acre than will a larger crop of smaller, lower-grade fruit.

Diseases and insects are easier to control on well-pruned trees than in a dense, neglected orchard.

Another minor factor which helps to offset the yield reduction resulting from pruning is the fact that the set of fruit on well-pruned trees usually will be somewhat heavier than on lightly-pruned trees. This improvement in ability to set a crop may be of some importance when



When using pneumatic equipment, pruner may work fast, leaving stubs; cuts should be close to limb from which branch is removed.



Here is another type of power platform which is used in West; fruit set on well-pruned trees will be somewhat heavier than on lightly-pruned trees.

unfavorable climatic conditions prevail during the bloom period.

The importance of making cuts close to the branch from which a limb is being removed is well known by all fruit growers. This method of pruning should be given careful attention when pneumatic equipment is used. Workmen using these mechanical pruners may be inclined to increase their speed and leave stubs throughout the trees. These stubs provide a place of entry for diseases which may weaken the tree and cause premature death. As a rule, the use of wound dressings is unnecessary when pruning the orchard. If the cuts are made close to the branch, the wound will soon heal over. If a stub is left, the wound

dressing will be of little value in reducing the development of disease.

As far as is known, the shape or form of the tree does not affect the yield or quality of fruit as long as the trees are pruned sufficiently to provide good exposure of the fruit to sunlight, and as long as the spraying or dusting operations can effectively control diseases and insects.

Re-stated briefly, the important principles of pruning are: 1) the dwarfing effect of heavy pruning, 2) the weakening of the root system, 3) the delay in bearing, 4) the reduction in yield, and 5) the improvement of the size and quality of the fruit. Also, a well-pruned tree with strong wide-angled scaffold branches usually will be a long-lived productive unit.

THE END.

100th BIRTHDAY

Missouri State Horticultural Society, oldest farm group west of the Mississippi, reflects upon past accomplishments while planning its centennial celebration in January

By W. R. MARTIN, JR.

Secretary, Missouri State Horticultural Society

ON the evening of January 5, 1959, the exact centennial birthday of Missouri State Horticultural Society, a dinner will be held to commemorate the event. The society was organized in Jefferson City,



Above: 1958 Delicious crop in Missouri was mostly tray packed.

Left: field-packing scene back in 1910.

January 5, 1859. American Pomological Society will join the Missouri society in Columbia for the three-day centennial meeting, January 5-7.

Representatives of the societies of other midwestern states as well as representatives of the departments of horticulture of midwestern colleges of agriculture will be invited to join Missouri in this celebration. The state society, along with American Pomological Society, is planning an outstanding three-day program which will include not only Missouri scientists and fruit growers, but also outstanding horticulturists of the United States and representatives of National Apple

Institute and International Apple Association.

New varieties of fruits and exhibits portraying some of the history of the state society will be on display at the Daniel Boone Hotel, the society's headquarters. American Pomological Society headquarters will be at the Tiger Hotel.

In November, 1858, Norman J. Colman, in his *Valley Farmer*, issued a call to fruit growers to meet in Jefferson City on January 5, 1859, for the purpose of forming a "Missouri Fruit Growers Association" to advance and direct the fruit growing interests of the state and the West. Four years later the name of the

organization was changed to Missouri State Horticultural Society. Colman was elected the first president, and F. R. Elliot was the first secretary. For the next 100 years the society met annually and usually semi-annually, survived the Civil War, and today remains the oldest farm organization west of the Mississippi River.

During the first two decades of the society, the grape growers of Boonville and Hermann provided most of its leadership, and its meetings were devoted primarily to grapes and wines. Starting about 1880 the applemen took over the organization and have provided its leadership to the present time.

The society was instrumental in organizing the State Board of Agriculture and in establishing the College of Agriculture and the Missouri Agricultural Experiment Station of the University of Missouri. It also was instrumental in establishing Missouri State Fruit Experiment Station at Mountain Grove in 1899, which is devoted primarily to the

(Continued on page 29)

FAMOUS NAMES IN MISSOURI'S FRUIT GROWING HISTORY



Norman J. Colman



C. C. Bell



Paul Stark, Sr.



Kirk L. Keller



Patterson Bain



Smith Peters



W. R. Martin, Jr.



- Cherry Producers Co-op Employs Two Contact Men
- Florida Keeps World Leader In Citrus Title

Personal Touch

MICHIGAN—Employment of two fieldmen by Great Lakes Cherry Producers Marketing Co-operative, Inc., marks a step forward in the association's efforts to establish personal relationships with individual cherry growers throughout the year.

Sam Bird, of Grand Rapids, Mich., and Ronald Martin, of Rochester, N. Y., have been named assistant managers in charge of field operations for Michigan and New York-Pennsylvania, respectively.

Commenting on the appointment of the two men, John Handy, of Sodus, Mich., president of the marketing group, said that the co-op took this action to insure association members that they do not lose their bargaining position to processors by default. Only a personal representative, he continued, can bring back the



Ronald Martin



Sam Bird

reactions and wishes of individual members.

Both fieldmen are graduates in agricultural economics from Cornell University, Ithaca, N. Y. For the past 12 years, Bird has been with Atlantic and Pacific Tea Company as a terminal office manager at Ft. Wayne, Ind.; plant superintendent in Detroit, Mich.; and buyer-inspector in Grand Rapids.

Martin, who grew up on a farm in New York, brings to the association his experience as an assistant county agent and as a marketing specialist with the newly-created growers market in Rochester.

Big Deal

MARYLAND—One of the largest orchard deals ever recorded in Washington County took place when some 600 acres of producing land were transferred from Mr. and Mrs. Stanley Fulton of Hancock, Md., to the Green Lane Orchards, Inc., also of Hancock. The selling price was listed as \$270,000.

Most of the property, which is in apples and peaches, is located in Washington County, but there are also two orchards in Bethel and Thompson townships in Fulton County, Pa. Nineteen houses, a modern cold storage and packing house, equipment, and growing crops were included in the purchase price.

Samuel R. Dillon, Jr., of Hancock, has been named by Green Lane as marketing

agent for all fruit harvested from the former Fulton orchards. Dillon is recognized among fruit growers as an ardent advocate of improvement in both production and quality. He is also first vice-president of National Peach Council.

With the 100,000 bushels of apples estimated to be harvested from the newly acquired Fulton properties this year, the total harvest from the Dillon orchards should be some 500,000 bushels.

New Blackberry Available

NEW YORK—A new variety of blackberry was introduced and named at the 40th annual meeting of the New York State Fruit Testing Association held at Geneva recently.

The new berry is to be known as the "Darrow" in honor of Dr. George M. Darrow who, prior to his retirement in 1956, was in charge of USDA's small fruit breeding program.

Darrow is notable for its vigor, regular and heavy production, firmness, and general good quality. The berries are large,

measuring one inch in length and three-fourths inch in width. They begin to ripen in late July and continue over a long period.

Plants of the Darrow are available from the fruit testing association.

Walnut Price Lower

CALIFORNIA—Diamond Walnut Growers, Inc., has established its new crop in-shell prices at 5 to 6 cents a pound below 1957 levels, according to J. H. Bryce, general manager of the statewide growers' co-operative.

Prices per pound f.o.b. Stockton for in-shell walnuts packed in 100-pound burlap bags ranged from 34¼ cents for Diamond brand large-size grade to 26¼ cents for Emerald brand baby-size grade.

Bryce reported that the lower prices were necessary in order to assure successful movement of the large 1958 West Coast walnut crop.

Florida Leads in Citrus

FLORIDA—In spite of reduced production due to low temperatures in the 1957-58 season, Florida remained world leader in citrus, furnishing 31% of the

(Continued on page 22)

FRUIT PEST HANDBOOK

(SIXTY-NINTH OF A SERIES)

APPLE MOSAIC

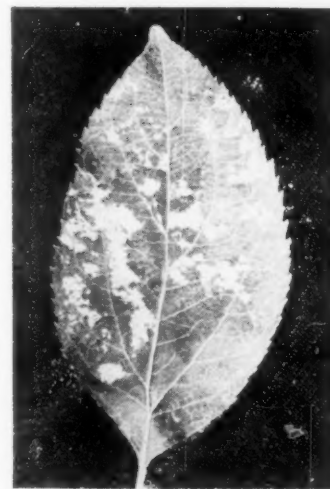
THIS disease has been known since 1825 and is, therefore, one of the oldest known virus diseases. It is of world-wide distribution but has been serious only in certain areas in New Zealand, Europe and South Africa. It occurs in the United States as a single or a few diseased orchard trees or as a few hundred diseased nursery trees where budwood was obtained from a diseased tree.

The leaves on diseased trees commonly show a prominent variegation or blotching with creamy white areas of variable size and shape on leaves otherwise near normal in color. The variegation commonly occurs only on the first six or eight leaves on a terminal, and can be observed soon after the leaves emerge in the spring. Symptoms tend to be less prominent or absent on leaves formed during relatively warm weather. Where the symptoms occur, they can be seen throughout the summer.

Three strains of the virus have been described and called severe mosaic, vein-banding, and mild mosaic. With severe mosaic, the symptoms were very prominent and included large white or pale yellow areas on the leaves, large dead areas on the older leaves, some defoliation, and the symptoms appeared on young leaves later in the season than with mild strains of the virus. The vein-banding strain resulted in white or pale yellow areas or bands along some of the veins in the leaf. The mild mosaic strain caused mild symptoms, sometimes only faint yellowing of areas of the leaf.

Mosaic appears to be spread in the nursery and into new orchards only through the use of diseased budwood with subsequent production and sale of diseased trees. It has been shown that mosaic may spread slowly in the orchard. This spread may occur during the pruning operations.

The apple mosaic virus has been trans-



Apple mosaic symptoms on Golden Delicious.

mitted experimentally to several other plants, including the rose and the peach. However, the disease seems to occur naturally only on apple.

Control. Use nursery budwood from mosaic-free trees. Inspect the nursery and destroy all trees which show symptoms. Remove diseased trees from the orchard. F. H. Lewis, Pennsylvania State University.



State REPORTS WESTERN EDITION

Experience Important for Pruning Skill

THE pruning of fruit trees is perhaps more of a skill than a science. I have met some excellent pruners who, I know, cannot read and who, I am quite sure, have had very little instruction. Many early California orchards were well pruned before educational or research agencies were active in the field of agriculture.

A grower who possesses an understanding of plants or, as they sometimes say, "has a green thumb," and who observes tree responses, will develop rather good pruning practice as his experience grows. Our farm educational aids can help those not so gifted, but there is no substitute for field practice, coupled with thoughtful observation of results.

The inexperienced pruner with a recently-planted orchard most often will leave too many initial (primary) framework branches. He cannot bring himself to remove all but three or four well-spaced scaffold limbs at the trunk. Later crowding out of some of these limbs and resulting weak crotches, will convince him that this was a pruning error.

He also will note that heavy cutting back of vigorous, young trees will usually encourage excessive numbers of new shoots, requiring heavy cutting and thinning out the following year as well as a delay in tree development and fruiting. An experienced pruner will correct these faults in pruning seasons which follow.

It is helpful to one learning to prune to understand the general principles of how trees grow, the function of the leaves and root system, and the interdependency of both. This basic information should

also include a knowledge of plant-food storage within the tree for necessary spring growth. An understanding of how pruning wounds heal in the growth process will usually go a long way toward eliminating pruning stubs and similar thoughtless pruning errors.

A finished, master pruner must also acquire some essential knowledge of the growth habits of each kind of fruit. It is even necessary to know something of the bearing and growth habits of different varieties of the same fruit in the region. These habits may vary between regions and on different soils. Some varieties often set heavily and the fruiting wood should be well thinned during pruning in order to reduce the cost of later hand thinning the fruit.

Other varieties may be inclined to set light crops, and a great deal of fruit wood should be left by the

pruners in order to provide for sufficient crop. Some varieties will be upright growers, and the pruner must use this knowledge and his skill to develop a good spread by proper selection of limbs while the young tree is developing. Some varieties of plums, peaches, almonds, and other fruits, though vigorous, are prone to spread excessively unless this habit is recognized and curbed while the trees are young.

Even the best pruners must often work with a new variety or "feel it out" for several years before they will arrive at a satisfactory procedure with that variety.

Any orchardist who desires to become a good pruner, or one who is to instruct or direct pruning crews, should do some pruning himself. He should prune the same trees for several years in order to see the results of his own ideas. He will gain confidence if he watches tree responses to his own efforts.—*John L. Quail, Agr'l Ext. Service, Fresno, Calif.*

Six Hours to Market

PROSPECTS for shipping fresh produce by air are promising. Describing the next generation of cargo aircraft, J. B. Edwards, Douglas Aircraft Co., says two models of a commercial turboprop cargo carrier are in the proposal stage.

"One is a conventional design," he explains, "with a block speed of 380 miles per hour. Los Angeles to New York delivery is accomplished in about six hours. It carries a payload of 35 tons at a direct cost of only 3.8 cents per ton-mile. Present airfreight costs per ton-mile are: 15.4 cents for the DC-3, 11.5 cents for the DC-4, and 7.5 cents for the DC-6A.

"Combined with this improvement in economy is an increase in productivity," says Edwards. "That means we can produce a vehicle that enters the medium-cost transportation market of all industry, and for the first time is competitive for movement of the higher-value perishables," he commented.

Edwards added that development of new techniques in ground handling and loading must be directed toward economy, speed, and standardization. A recent development in low-cost expendable pallets offers a practical solution to volume movement, he said.

Profits Grow
on *Stribling's*
FRUIT & NUT TREES

Write for catalog today

Stribling's NURSERIES
P. O. Box 793
Highway 99 North
Merced, California
RAndolph 2-4104

THE QUESTION BOX

Don't be perplexed! Send us your questions—no matter how big or small. A 4-cent stamp will bring you an early reply. Address: The Question Box, AMERICAN FRUIT GROWER, Willoughby, Ohio.

OHIO NUT GROWERS

I would like to exchange information with other Ohioans on growing nuts. Do you know of any nut growers to whom I could write?—Ohio.

Write Ohio Nut Growers Association, E. M. Shelton, Secretary-Treasurer, 1468 W. Clifton Blvd., Lakewood 7, Ohio.

PRUNING BULLETIN

Where can I obtain a pamphlet or bulletin telling me when and how to prune fruit trees?—Oklahoma.

Try Department of Horticulture, Oklahoma A & M College, Stillwater. Or write to Superintendent of Documents, Government Printing Office, Washington 25, D. C., and ask for Cat. No. A19:1870 entitled *Pruning Hardy Fruit Plants*. Send 20 cents in coin to cover cost.

ROTARY BRUSH SHREDDERS

What companies make rotary brush shredders?—Massachusetts.

Wood Bros. Mfg. Co., Oregon, Ill.; Brillion Iron Works, Inc., Brillion, Wis.; Bush Hog Mfg Co., Selma, Ala.; and Sunflower Industries, Inc., Olathe, Kans.

APPLE CANDY RECIPE

Sometime ago you published a recipe for apple candy in AMERICAN FRUIT GROWER. Could you send it to me since I have misplaced it?—Virginia.

- 2 envelopes gelatin
- 1 3/4 cups applesauce
- 2 cups sugar
- 1 teaspoon vanilla
- 1 cup chopped nut meats

Soak gelatin in 3/4 cup applesauce for 10 minutes. Put 1 cup applesauce and sugar in pan and bring to boil. Add first mixture and boil 20 minutes, stirring. Cool, add vanilla and nuts, and pour in buttered pan to set. When firm, cut and roll in powdered sugar.

WHITE CLING PEACH

Is there a white cling peach of good size that will ripen in my area about two weeks ahead of Golden Jubilee?—Missouri.

Of the peaches tested in Missouri, the semi-free Early-Red-Fre has fair size and good quality and probably comes closest to meeting your requirements.

FIRE FIGHTING

Would my sprayer be of value for fire fighting in wintertime?—New York.

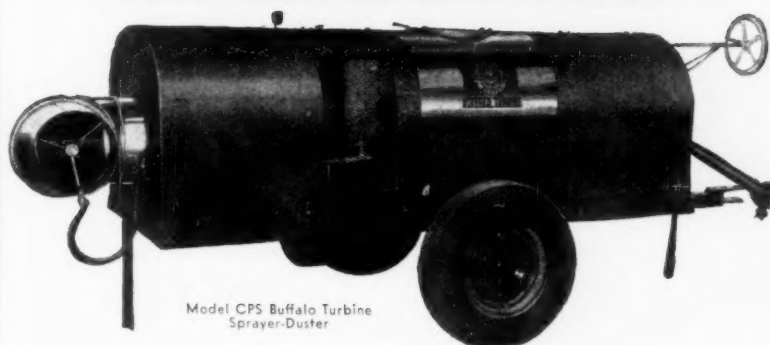
Fruit growers have virtually a whole fire department in their sprayers and spray equipment. Naturally, this applies only to the hydraulic-type sprayer and not to the air-blast sprayer.

One difficult problem is cold winter temperatures which will freeze the water in the tank. Calcium chloride will prevent freezing but will cause corrosion in the tank and in various parts of the pump. Often equipment which has set for weeks with calcium chloride or salt in the water in the tank would be inoperative when called upon for service at a fire.

It seems that the only answer is heated storage space. This is worthy of serious consideration because a hydraulic sprayer is an excellent piece of fire-fighting equipment. The use of high-pressure pumps for building fire trucks came about as a result of the experiences of fruit growers who had successfully used their own hydraulic sprayers for fighting fires.

DECEMBER, 1958

The LOWEST-PRICED, HIGH-CONCENTRATE, AIR-BLAST Sprayer on the MARKET!



Model CPS Buffalo Turbine
Sprayer-Duster

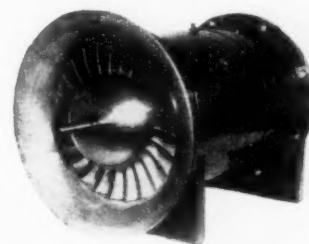
**All the Advantages of Turbo-Spraying
and Turbo-Dusting at a NEW Low in Cost!**

OPERATES FROM THE POWER TAKE-OFF SHAFT OF ANY 2-PLOW TRACTOR

This streamlined, totally enclosed CPS Sprayer-Duster delivers full power for long carry and wide range coverage. Ideal for row crop or orchard spraying. Turbulent air as the carrying vehicle produces a spray particle size so small, higher concentrated chemicals can be used. Result—less gallonage per acre.

Quality features, such as Stainless Steel Liquid Tank, Mechanical Agitation, Turbine-Type Axial Flow Blower, Adjustable Axle, All Controls Within Easy Reach—are all made possible by Buffalo Turbine's volume production.

Learn how little it costs to spray your way to better crops and higher profits. Write for information and prices.



This Axial-Flow Turbine- Type Blower Gives You

- GREATER PENETRATION
Velocities from a gentle breeze to 180 M.P.H.
- MORE COMPLETE COVERAGE
14,000 cu. ft. of air per min.

Buffalo Turbine Agricultural Equipment Co., Inc.
67 Industrial Street Gowanda, New York

PLANT VANCE DELICIOUS

Be on the Early Market . . . Enjoying Top Prices!

Vance Delicious Trees now available at Waynesboro Nurseries, Virginia's Largest Growers of Fruit Trees. It is suggested that orders be placed early for fall and spring planting as supply has never equalled demand. You are invited to submit planting list for quotations on Vance Delicious and other Fruit Trees.

WAYNESBORO NURSERIES Waynesboro, Virginia



"We're getting a high return on our investment in Styrofoam®"—Pomona Fruit Farms

"Our new controlled-atmosphere plant was built to store McIntosh apples," says Howard Newman, plant foreman, Pomona Fruit Farms, Appleton, New York. "This type of storage requires exact control of oxygen and carbon dioxide in an absolutely gas-tight building.

"Styrofoam® insulation contributes greatly to our highly successful operation. We have found it far more effective than other materials because of superior insulating qualities

at much lower cost per square yard. And Styrofoam is easy to install because of the very lightweight boards, which can be readily cut to any size, yet retain high structural strength."

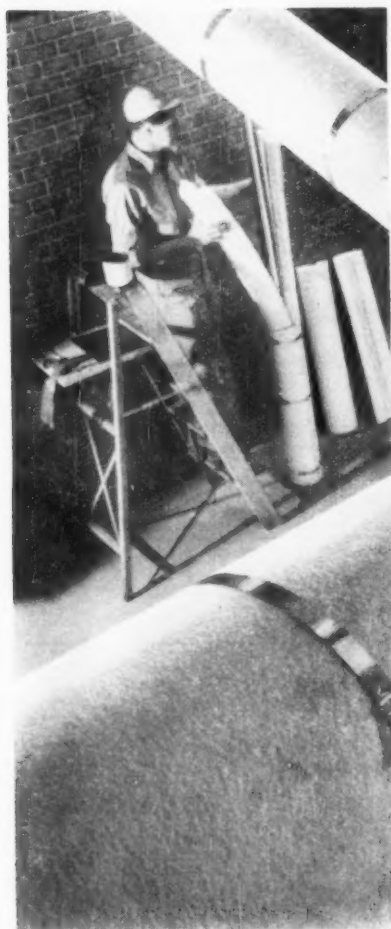
Let a Styrofoam distributor help with your next insulation project. Many distributors have better than a decade of experience with Styrofoam backed by Dow research and technical aid. THE DOW CHEMICAL COMPANY, Midland, Michigan, Department PL1728N-1.

CHECK THIS EXCLUSIVE COMBINATION OF PROPERTIES

STYROFOAM* <small>FIRST IN PLASTIC FOAM INSULATION</small>	Insulations	Low "K" factor	Superior water resistance	High compressive strength	Light weight	Superior resistance to rot and vermin	Easy handling and fabrication	Low-cost installation	Lowest cost per year service
	STYROFOAM	•	•	•	•	•	•	•	•
	A	•	•	•	•	•	•	•	•
	B	•	•	•	•	•	•	•	•
<small>* Styrofoam is a registered trademark of The Dow Chemical Company</small>	C	•	•	•	•	•	•	•	•

YOU CAN DEPEND ON





Unyielding water resistance— **STYROFOAM**[®] for pipe covering insulation

Low-temperature pipe covering made of Styrofoam[®] does an excellent job and lasts a lifetime. Its unyielding resistance to moisture and its permanent low thermal conductivity prevent condensation and dripping—reduce heat transfer.

Styrofoam will not crack or split from changing temperature and it is not subject to ice buildup around valves. It's lightweight and easy to apply—requires no maintenance. A complete line of pipe and vessel covering made from Styrofoam is available from a number of fabricators. For their names and more information, write to THE DOW CHEMICAL COMPANY, Midland, Michigan, Plastics Sales Department 1728 N-1.

*STYROFOAM is a registered trademark of The Dow Chemical Company



DECEMBER, 1958

Apples

New Super-Red Sports

TWO new super-red sports of Delicious have come to the foreground as promising varieties for commercial apple production.

The Imperial Double Red Delicious is a full tree sport with overall red bluish color and without stripes. Several days before normal harvest, the Imperial reaches almost 100% extra



Imperial Double Red Delicious shown on tree in Elon J. Gilbert orchard near Yakima, Wash.

fancy coloration and holds on the tree until full maturity, without turning "blackish".

Discovered several years ago, the new sport has consistently produced good crops of well-sized, beautifully-colored apples, reports Phil Jenkins, ranch foreman at the Elon J. Gilbert orchards near Yakima, Wash. The Imperial is now 13 years old and of normal size. Keeping quality has been described "excellent" by leading horticulturists.

Trees are now available in limited commercial supply from May Nursery Co., Yakima.

The other new sport, Topred, is now under test by Columbia & Okanogan Nursery Co., Wenatchee, Wash. It is the first known sport of the Shotwell Delicious.

The sport limb on the original Shotwell Delicious tree was first noticed by Leonard Hutchinson in his orchard near Tonasket, Wash. Although the variety colors with a stripe, by the time the apples are ready for picking, the stripes have filled in, developing a beautiful overall finish color.

The company plans to start propagating Topred next year.

Frequent Inspections

APPLE storage operators should make more inspections of their fruit throughout the storage season to determine the prevalence of in-

ternal breakdown and other storage disorders, such as scald, bitter pit, or brown core.

That's the word of advice from F. W. Southwick, University of Massachusetts. The operator who spots a storage disorder early in the season may be able to dispose of the fruit before serious losses are incurred, says Southwick.

Regular inspections should be made at two- or three-week intervals, beginning around Thanksgiving. Samples of fruit of a susceptible variety, for example, should be taken from storage and placed at room temperature for a week in unsealed poly bags to prevent shriveling. During this week, the operator can observe whether any troubles develop that were not evident in storage.

Pears

Pear King

THE title "Pear King of New Hampshire" might well be bestowed upon elderly Forest L. Colby of Colby Fruit Farm, Enfield, N. H.

Colby was reared on the old homestead which has been in his family since the Revolutionary War, and became interested in pears in 1928. At that time he acquired a few small trees of the Souvenir du Congrès variety, but they produced a poor quality pear for his particular soil.

So he sent away for samples of other varieties. Today he has some 90 varieties and a total of 1150 pear trees growing on his farm. His average yield this year was around 8 bushels per tree.

Colby markets his pears by placing advertisements in newspapers for miles around, inviting housewives to come and pick their own.

"I have found that proper advertising in a large enough area brings buyers from quite a distance," Colby said. "The people talk about my fruit and I have customers who come back year after year. By letting them pick their own, in their own containers, we do away with the cost of having to hire laborers to pick the fruit and the cash outlay of buying many containers. We also do not have to grade the fruit because the people naturally pick what they want."

Sprays are not required because of the climate in his section of New Hampshire and Vermont. Colby says that he has never sprayed his trees and that the fruit is not bothered with blight or insects. The

Fence Building • Tree Planting

AUGER

- Quick to attach
- Heavy steel gears for life-time use
- Rugged plow steel cutting edges
- Shear pin on top—not on auger bit
- Adaptable to most tractors



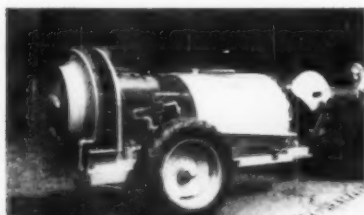
Complete with 9" bit \$95. Eugene with 20" tree-planting bit (illustrated) add \$15 with 21" bit, add \$20

REAR'S FARM SERVICE
755 River Ave. Eugene, Ore.

PRUNE with Orchardkraft Air-Power PRUNER

"A little air does a lot of work." Our new Model G pruner is very economical with air, simpler in construction with lots of power. Model E for fast work on small cuts. Made by makers of orchard equipment for over 50 years. Write for circular.

JOHN C. BACON Corp., Gasport, N. Y.



Sure you could pay \$2,000 more! BUT WHY?

"Here is a photo of the Besler Power Package we built into a modern speed sprayer with a little channel iron, a tank, and an old automotive truck axle. 'This machine is doing our job as thoroughly as any major brand factory unit would at a total cost to us of just about one-half price. 'Congratulations to you on this fine unit you have made available to us orchardists.' 'Respectfully, Al Cox Rt. 1, Box 240, Aptos, Calif.'"

BESLER POWER PACKAGE

Complete Air Blast Sprayer — less tank and trailer — Attaches in less than a day to an old tank and trailer, or to any one you buy or make.

Send coupon today.

BESLER CORPORATION	
4053 Harlan St., Emeryville Station, Oakland 8, Calif.	
Gentlemen:	
Please send Power Package literature.	
Name _____	
Address _____	
Grower _____ Student _____ Other _____	

pears are large and firm without visible insect, rust, or other damage. "I have had only one tree to be affected with fire blight out of all my 1150," he says with a touch of pride. "Of course, I destroyed it and kept a sharp eye out for further damage, but it never came back." He attributes this immunity to the fact that the elevation of his farm is 1235 feet.

New pear varieties are a constant concern of Colby and he is continuously experimenting with them. His production records on different varieties are widely quoted in his area.—Larston D. Farrar.

Berries

Get Ready for Winter

STRAWBERRIES should be mulched shortly after the temperature drops to 20° F. for the first time in the fall, which usually occurs between Thanksgiving and Christmas.

This advice comes from Thomas J. Tatterson, West Virginia University assistant extension horticulturist, who points out that if plants are not mulched, they will heave from the ground when it freezes and thaws. Crowns of plants also are damaged.

Tatterson recommends using dry, clean wheat straw, applied several inches deep, both over and between the rows, and covering plants so no leaves can be seen. The amount needed will vary from 1 to 5 tons per acre, with 3 tons as the average, says Tatterson.

Grapes

Take Cuttings Now

BECAUSE grape canes should be fully mature for propagation, this month is a good time to take cuttings after sufficient freezing weather has killed immature canes.

The well-matured canes of the desired variety are cut into pieces so that each cutting has two or three buds, explains Prof. Karl Brase, fruit specialist at New York State Agricultural Experiment Station, Geneva.

The cut is made just below one bud and about an inch above the top bud of the cutting, Brase continues. The cuttings are then tied in small bundles and stored in a frost-free place over winter. They should

be protected against drying out by covering them with moist sawdust in a cool cellar.

Where a greenhouse is available, the cuttings may be removed from storage in March and planted in sand or a mixture of sand and soil, with at least one bud beneath the surface, says Brase. The cuttings will root within a month when they can be transplanted to pots. By the middle of May they are ready to set out in their permanent location.

If a greenhouse is not available, the cuttings should be planted in rows in the garden or nursery as early in spring as the soil can be worked. Cuttings should be planted deep enough so that only the top bud is above ground. After the cuttings take root during summer, they should be transplanted to their permanent place in late fall.

Citrus

An Edge on Jack Frost

CITRUS growers in California and Florida should have an edge on Jack Frost this winter.

Although the past few winters in California have been relatively mild, George E. Goodall, University of California farm advisor, has warned Santa Barbara County growers that the next one may be cold. In advising growers to be well prepared for frost protection, he recommended that they have their orchard minimum thermometers tested by U. S. Weather Bureau Fruit-Frost Service free of charge last October.

Still suffering from the effects of last winter's freeze damage, Florida growers need little warning about being prepared for cold weather ahead.

Among frost protection devices on the market this year are Tropic Breeze wind machines, which are being introduced in the state by Florida Division of Food Machinery and Chemical Corporation, Lakeland. After an investigation of all available makes of wind machines, FMC rated the Tropic Breeze as the finest of its type. The firm entered an agreement with National Frost Protection Co., Inc., of Burbank, Calif., to manufacture and sell these machines in Florida.

Free copies of a comprehensive report on Federal-State Frost Warning Service tests involving wind machines may be obtained from Food Machinery and Chemical Corporation, Florida Division, Department A, Lakeland, Fla.



Batjer



Billingsley

FOUR RECEIVE GOURLEY AWARD

THREE USDA scientists with the Agricultural Research Service at Wenatchee, Wash., and a University of Maryland extension pomologist won the Joseph Harvey Gourley Memorial award and cash prize for 1958. The USDA researchers include L. P. Batjer, principal physiologist; M. N. Westwood, and Harlin D. Billingsley, biological aide. The fourth winner is Benjamin L. Rogers, Hancock, assistant professor with the Maryland Extension Service.

The Gourley award and cash prize are presented annually by AMERICAN FRUIT GROWER for the best paper on pomology printed in the proceedings of American Society for Horticultural Society.

Established eight years ago, the award commemorates the memory of Dr. J. H. Gourley, former president of ASHS and chief in horticulture at Ohio State University. Dr. Gourley served this magazine as editorial advisor for a number of years. He is included in "Pomology's Hall of Fame" (AFG, Dec., 1955).

The winning paper, entitled "Predicting Harvest Size of Apples at Different Times during the Growing Season," is a detailed account of an eight-year study on size relations of Delicious and Winesap apples in central Washington. The researchers undertook the study to develop a quantitative method of predicting harvest size of fruit early enough in the season to be a useful guide to thinning practices.



Westwood



Rogers

DECEMBER, 1958

Be Sure With GREENING'S TREES

- BUD SELECTION
- ALL ORDERS GUARANTEED
- PROVED and PROFITABLE VARIETIES

The Greening Nursery Company, one of the leaders in bud selection, have for over 100 years given all growers the benefits of their research and improved strains which mean greater orchard profits.

AGENTS

Earn extra money, full or part time. It's pleasant and profitable to sell Greening nursery stock. Write us today for all of the details.

Send 10c to cover postage for the Greening 40-page color catalog.



THE GREENING NURSERY CO.

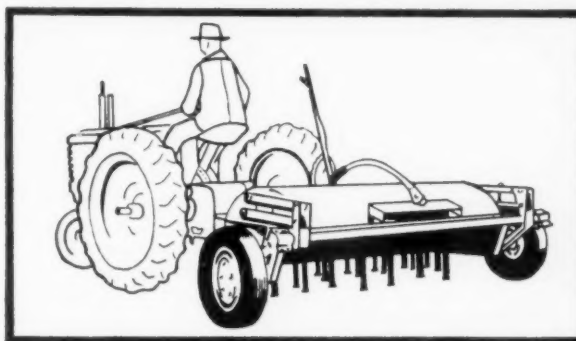
P. O. BOX 605

MONROE, MICHIGAN

When writing advertisers, be sure
to mention **AMERICAN FRUIT GROWER**

TURN ORCHARD PRUNINGS INTO PROFITS!

with an Olson ROTO BEATER



Don't burn those prunings . . . shred them into profitable mulch with an Olson Roto Beater, the industry's most rugged flailing machine. Even the heaviest of prunings are handled with ease by the Roto Beater . . . thanks to heavy duty construction.

FOR FULL INFORMATION, MAIL THIS COUPON TODAY!

PARMA WATER LIFTER CO.
Parma, Idaho

☐ Please send me full information on the Olson Roto Beater.

☐ Have a sales representative call on me.

NAME

ADDRESS

CITY STATE

PARMA
Water Lifter Co.
PARMA, IDAHO



Unique 3 point mount arrangement, heavy duty steel tank with 100 gal. capacity and mechanical agitator now makes it possible to do a complete orchard spray job in the smaller orchards, and money-saver to bring out the big machines for those small jobs in the larger orchards. With the addition of a Wanner Pump, putting out up to 10 gals. per minute and 500 lbs. pressure, you are ready for any spray job in the orchard or field.

PAK-TANK only \$125.00

PAK-TANK complete with 4 Piston Hi-Pressure pump \$295.00

PAK-TANK with Pump and Row crop boom \$365.00

4 Piston Pump only—12 gal. per minute capacity at 600 r. p. m. 500 p.s.i. \$125.00

Rear's also manufacture Trailer Model Pull-Tank with all the above features—200 and 300 gal. capacity.

REAR'S FARM SERVICE

755 River Avenue

Eugene, Oregon

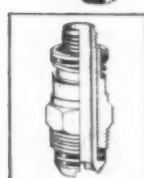
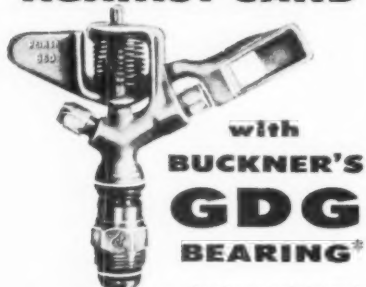


SPRAY Low-Cost Magic Circle Repellent Creates barricade against Deer, Alou, Beavers, Woodchucks, Skunks and Raccoons in some cases.

Older not offensive to humans. **BUY NOW!** Locally or order direct from State College Laboratories, State College, Pa. PRODUCT OF STATE COLLEGE LABORATORIES • P.O. Box 492, State College, Pa.

When writing advertisers, be sure to mention **AMERICAN FRUIT GROWER**

Triple Protection
AGAINST SAND



Buckner originated the first and only sprinkler bearing with three washers at both top and bottom for extra protection against air and water borne abrasives. Wear is absorbed by teflon and rubber washers. No metal wearing

against metal. Spring pressure keeps washers snug for a uniform seal and dependable rotation.

Buckner's three-washer GDG Bearing outlasts ordinary sprinkler bearings in on-the-farm irrigation. Do not accept substitutes. Buy genuine Buckner Sprinklers.

*Patent Pending

BUCKNER MFG. CO., INC.
P. O. Box 232 • Fresno (8), California



By **HENRY BAILEY STEVENS**

Names, Please

"NOTING your interest in both farm names and outer space," writes a friend, "I think you'll be excited to learn that Raymond Reiter, of Treedale Farm, Mars, Pa., has adopted the slogan: 'Treedale apples from Mars—they're out of this world!'"

And in Wolcott, N. Y., where the last glacier helped to supply air drainage to his cherries, peaches, and apples, Ellis H. Bruner has named the orchard Drumlin Downs. Nearby his waggish brother celebrates an old house with an echo—Tumblin' Down!

That's fine, boys. Roll some more juicy titles in. Would cider by any other name smell as sweet?

Tall Story JOHN W. HERSHEY, of Downingtown, Pa., who proclaims his Nut Tree Nurseries as "The World's Headquarters for Tree Crop Research in Profitable Forestry and Farming," writes me, modestly: "Henry, your porcupine story (AFG, June, '58) reminds me of one not as good as yours but interesting. I picked this up while running the Tree Crop and Forest Breeding unit in the TVA 20 years ago.

"One of the young foresters, Stan by name, got himself a bride from the North and did himself brown on his honeymoon showing the maiden the glory of the Great Smokies. Bouncing along a mountain trail in his Ford at 5 miles an hour SHE squeals she sees a BIG rattler in her gutter and to stop. Stan comes to a sliding halt immediately and hears a loud hissing.

"Not heeding her fearful protests he opened the door and rushed around back. The hind wheel had stopped at just the right place to catch the varmint's full ire. So hard did its fangs hit the tire that they penetrated the inner chamber. Compressed air flowed from the rubber into the serpent's gullet.

"While Stan gazed with amazement, the rattler ballooned under the pressure and suddenly blew up—all to smithereens—before his very eyes. It's a fact."

You win, John, and incidentally we like very much your slogans: "Better things for better living through liv-

ing things," and "We don't grow trees to sell, we sell trees to grow."

Any Way
By **J. W. Melton, Sr.**
Glen Allen, Va.

Apples, any kind of way,
Cooked or raw, for work or play;
Now they're making apple candy—
I've tried it and I find it dandy!

Ever stop to think that a Christmas tree is an evergreen made into a fruit tree—a bearer of welcome gifts? Santa Claus is kind of an orchardist.

Address your "Windfalls" contributions to Henry Bailey Stevens, AMERICAN FRUIT GROWER, Willoughby, Ohio.

VARIETY EXHIBITS TO BE RECOGNIZED

AT the last annual meeting of American Pomological Society, held at Worcester, Mass., in January of this year, it was decided to authorize the Wilder Medal Committee to prepare a certificate to be awarded to outstanding educational exhibits of fruit varieties.

The Wilder Medal was established in 1873 in honor of Marshall Pinckney Wilder, first president of the society. Silver and bronze medals were authorized. The silver medal has been conferred on individuals and institutions rendering outstanding service to horticulture, and occasionally to newer varieties of proven merit. For many years the bronze medal was given to fruit exhibits, but none has been given since 1927.

Nominations for a Wilder Certificate should be made to APS secretary, Dr. George M. Kessler, Michigan State University, East Lansing, Mich. Accompanying the nomination should be detailed information about the exhibit, including a list of the various kinds of fruits exhibited, the number of varieties, and information as to the educational value of the exhibit. The Wilder Medal Committee will study the nominations and decide if any are worthy of a Wilder Certificate.

It is hoped that the awarding of the new Wilder Certificate will help to stimulate interest in educational exhibits of fruits, and the search for useful new fruit varieties. Some of the new kinds may become important commercial varieties. Others could prove to be helpful to fruit breeders in their search for better breeding material.—Stanley Johnston, Chairman, APS Wilder Awards Committee.

Located on well-traveled highway? Then you may want to attract the motorist with a good-looking display of fruits. Working drawings for an attractive, easy-to-build roadside stand are available for \$2.00 from AMERICAN FRUIT GROWER, Willoughby, Ohio.

AMERICAN FRUIT GROWER

Stone Fruits

Hardiness of Cherries

NEMATODE damage influences cold hardiness of Montmorency cherry trees, according to research at New York State Agricultural Experiment Station, Ithaca.

More extensive injury was found on twigs from nonfumigated plots than from fumigated ones. Twigs from trees on Mahaleb stock were more cold resistant than twigs from trees on Mazzard stock.

Researchers L. J. Edgerton and K. G. Parker, report that the infected trees also have shown more bud-killing than trees grown in soils fumigated with either DD or methyl bromide.

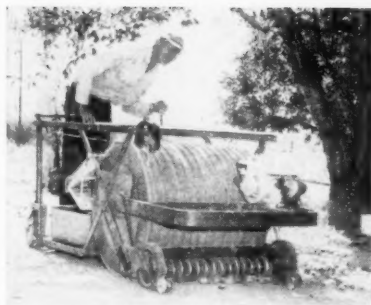
New Prune Picking Machine

A NEW type of self-powered prune picking machine which can do 2 acres an hour at a maximum rate of 3 boxes a minute has been invented by Robert Shipley of Geyserville, Calif.

Instead of the fruit being brushed onto a conveyor as in the conventional type machine, it is picked up between edges of flexible belts mounted over grooves in a 36-inch wide wooden roller.

Shipley's machine operates on a 2 $\frac{3}{4}$ hp four-cycle gasoline engine which simultaneously drives the roller belt, propels the machine, and picks up the fruit. The prunes are caught in two boxes mounted on a rear platform.

Two small wheels at the front end of the drum turn a series of dividers in a counter-rotating direction to guide the prunes on the ground into



Shipley operating prune picker he invented.

the drum grooves. Small augers placed ahead of these wheels brush aside fruit thus preventing squashing.—Neale Leslie.

Mowing Peach Tops

HEADING back overgrown peach trees so fruit can be picked from the ground is no longer a chore at the Herbert DeKleine orchard in Hudsonville, Mich. DeKleine, a vocational agriculture instructor, uses a tree topper contrived by mounting a hay crop mower on a tractor. Operated by ingenious control devices, the homemade machine saves three to four weeks of work in the orchard.

The limited reach of the aerial-mounted mower requires two passes to trim the tops in a row of trees—one side going up the row and the other side on the return trip. The trimming operation is best performed by a two-man crew, a tractor driver and a mower controller. The controller sits forward of the driver, facing the rear so that he can watch the cutting-bar moving into the tree tops. Hydraulic controls on the tractor permit him to adjust the plane of the bar. Rough edges left by the tree topper are removed by hand pruning. Cost of the topper was about \$100.



Tree topper features old hay crop mower, boom, pulleys, cables, and such mounted on tractor.

DECEMBER, 1958

CUT PRUNING COSTS MAKE BIGGER PROFITS



NEW! HOMELITE ELECTRIC PRUNER

- Powerful — cuts 1 $\frac{3}{4}$ " limbs
- Lightweight — only 6 $\frac{1}{2}$ lbs.
- Rim type saw cuts cleanly
- No freezing problem
- Runs anywhere from 90 pound Homelite Generator

Here's the fastest, easiest to use, power pruner on the market today. One that will trim your pruning costs to the bone and help you make a bigger profit from your fruit-growing business. It's a lightweight, powerful saw, not a shear — makes clean cuts that heal quickly and resist disease. Two pruners operate from a 90 lb. Homelite Generator that can be carried easily over mud and snow. Generator will also provide 115 v. AC current during power-failure emergencies or operate tools and lights anywhere. Write for complete details and name of your nearest Homelite Pruner Dealer.

HOMELITE
A DIVISION OF TEXTRON INC.
PORT CHESTER, NEW YORK, U. S. A.

THE WISH BASKET PUTS YOU WHEREVER YOU WISH TO BE



The WISH BASKET is a 3 dimensional pruning tower mounted on a trailer. You can prune 1/2 of a tree from one setting. Operator simply moves the single control knob, at his side, in the direction he wishes to go, either up or down, left or right, in or out or any combination of the 3 dimensions at the same time. The WISH BASKET is now supplied with its own complete hydraulic system, with pump to ship on any tractor & etc. The WISH BASKET and the powerful FRIDAY HYDRAULIC PRUNER make an economical combination.

Write for descriptive literature.

THE FRIDAY TRACTOR CO.
Hartford, Michigan

Profitable Roadside Marketing

By R. B. Donaldson and W. F. Johnstone

A practical handbook for the successful operation of a roadside market, based on many years' study of "on-the-farm" marketing in all parts of the country. It covers building stands, handling and storing produce, packaging, pricing, and advertising, and is illustrated with plans, charts, photographs, and drawings.

142 pages.....\$2.00

A 15% discount will be allowed if two copies are ordered or if another book is included in your order. This offer expires December 10, 1958.

Books sent postpaid on receipt of check or money order.

AMERICAN FRUIT GROWER
WILLOUGHBY, OHIO



Air Powered Limb-Loppers
Faster, Easier Than Ever

Basic engineering improvements now give faster pruning action—easily replaceable parts—longer field life. Save 30-50% of your pruning time!

Write for New Catalog A56, "A Short Cut Through the Pruning Problem"

MILLER-ROBINSON CO.
7801 Arden Boulevard
Los Angeles 3, California



U. S. APPLES AT BRITISH FAIR

"Apples" was the subject of this U. S. fresh fruit display at the British Food Fair held in London in September. John Chandler, center, of Sterling Junction, Mass., represented the New York-New England Apple Institute. On the left is the Hon. John C. Watts, Congressman from Kentucky, and right, the Hon. W. Pat Jennings, Congressman from Virginia.

STATE NEWS

(Continued from page 13)

combined total of all oranges, grapefruit, and tangerines marketed.

Breaking this down by fruits reveals that 69% of the world supply of grapefruit and 25% of the oranges and tangerines came from the Sunshine State.

In the United States, Florida maintained top position by producing 74% of the 1957-58 crop of citrus.

Dedication ceremonies for the new million dollar research laboratory being constructed in Winter Haven by USDA took place on December 4 with Secretary of Agriculture Ezra Taft Benson officiating and U. S. Senator Spessard L. Holland presiding over the program.

The new unit, which will serve all segments of Florida's agricultural industry, climaxes the efforts started several years ago by the citrus industry to expand the facilities of the U. S. Citrus Products Station.

NATIONAL HORT. GROUP ELECTS OHIOAN

Dr. Freeman S. Howlett, chairman of the department of horticulture at Ohio Agricultural Experiment Station and Ohio State University, has been elected president of American Society for Horticultural Science.

The internationally known horticulturist has served as secretary-treasurer of the society for the past 10 years and rose to the vice-presidency for the 1957-58 term.

Dr. Howlett is known around the world for his work on plant growth regulators, foliar analysis, and other physiological aspects of fruits and vegetables. Among Ohio orchardists he played a major role in the development of three outstanding new apple varieties: Ruby, Melrose, and Franklin.

Nematode Growth Arrested

ARIZONA—Nemagon soil fumigant in irrigation water has proved to be a successful nematode deterrent in Arizona citrus groves.

Working in groves with heavy nematode infestations, Dr. Harold Reynolds, Agricultural Research Service nematologist, found that some months after application of Nemagon through irrigation water, nematode population in test plots was reduced from 15,120 per 100 grams of soil to 178 per 100 grams in partially dosed soil and to near zero in fully dosed soil. Dr. Reynolds warns, however, that this soil fumigation should not be used unless it is definitely determined that nematodes are the cause of the decline.

CALENDAR OF COMING MEETINGS & EXHIBITS

Dec. 11-13—Tennessee State Horticultural Society 53rd annual meeting, New Southern Hotel, Jackson, A. N. Pratt, Sec'y, 410 State Office Bldg., Nashville 3.

Dec. 12—Arkansas State Horticultural Society annual meeting, Springdale—Earl J. Allen, Sec'y, Fayetteville.

Dec. 12-13—Utah State Horticultural Society annual meeting, Hotel Utah, Salt Lake City.—Anson Call, Sec'y, Utah State Agricultural College, Logan.

Jan. 5-7, 1959—Missouri State Horticultural Society centennial meeting, in joint session with American Pomological Society, Columbia.—W. R. Martin, Jr., Sec'y, Columbia.

Jan. 5-Feb. 27—State College of Washington 3rd Winter Agricultural Short Course, Pullman.

Jan. 6-7—North Carolina State Apple Growers Association annual convention, Battery Park Hotel, Asheville.—R. B. Phillips, Sec'y, Bakersville.

Jan. 6-8—Indiana Horticultural Society annual meeting, New Adult Education Bldg., Purdue University, Lafayette.—F. H. Emerson, Dept. of Hort., Purdue U.

Jan. 7-9—Western Washington Horticultural Association annual meeting, Fruitland Grange, Puyallup—Morrill Delano, Sec'y, Tacoma.

Jan. 7-9—Northeastern Weed Control Conference, 13th annual meeting, Hotel New Yorker, New York City.—E. R. Marshall, Public Relations Committee Chairman, Union Carbide Research Farm, Clayton, N. C.

Jan. 8-9—Maryland State Horticultural Society 61st annual meeting, Hotel Alexander, Hagerstown.—A. F. Vierheller, Sec'y, University of Maryland, College Park.

Jan. 8-9—Massachusetts Fruit Growers Association annual meeting, Armory, Hudson.—A. P. French, Sec'y, Amherst.

Jan. 12-13—Ohio Pesticide Institute, annual winter meeting, Neil House, Columbus.—J. D. Wilson, Sec'y, Wooster.

Jan. 12-14—Virginia State Horticultural Society annual meeting, Hotel Roanoke, Roanoke.—John F. Watson, Sec'y, P. O. Box 718, Staunton.

Jan. 12-16—Pennsylvania Farm Show, Harrisburg.

Jan. 14-15—Maine State Pomological Society annual meeting, in conjunction with Agricultural Trade Show.—Howard C. Berry, Livermore Falls.

Jan. 15-16—New Mexico A&M College annual Fruit and Vegetable Short Course, State College.—W. J. Wilbanks, Ext. Hort., State College.

Jan. 16-17—Irrigation conference, College Station, Texas.

Jan. 20-23—New York State Horticultural Society joint meeting with New York State Vegetable Growers Association, Empire State Potato Club, Western New York Apple Growers Association, New York State Agricultural Society, Onondaga County War Memorial, Syracuse.—Daniel M. Dalrymple, Sec'y, NYSHS, Lockport.

Jan. 26-31—New Jersey Farmers Week, Trenton.

Jan. 27-28—South Carolina Peach Council annual meeting, Clemson State Hotel, Clemson.—Roy J. Ferree, Sec'y, Clemson.

Jan. 28-30—New York State Horticultural Society eastern meeting, Kingston.—Daniel M. Dalrymple, Sec'y, Lockport.

Feb. 2-5—National Association of Soil Conservation Districts meeting, Houston, Texas.

Feb. 2-5—United Fresh Fruit and Vegetable Association 55th annual convention, Statler-Hilton Hotel, Dallas, Texas. Ass'n office, 777 14th St. N.W., Washington 5, D.C.

Feb. 3-5—New Hampshire Horticultural Society 65th annual meeting, Highway Hotel, Concord. Feb. 3—Fruit Growers' Day; Feb. 5—Potato Growers' Day.—E. J. Rasmussen, Sec'y, Durham.

Feb. 4-6—Ohio State Horticultural Society annual meeting, Commodore Perry Hotel, Toledo.—C. W. Ellenwood, Sec'y, Wooster.

Feb. 9—Pennsylvania State Horticultural Association annual meeting, Yorktowne Hotel, York.—Wayne H. Edelman, Exec. Sec'y, 21st & Chestnut St., Camp Hill.

Feb. 9-11—Pennsylvania State Horticultural Association, annual meeting, York.—Wayne Edelman, Exec. Sec'y, Camp Hill.

Feb. 9-11—Canners' and Fieldmen's Conference and Processors' School, Deshler-Hilton Hotel, Columbus, N.J.

Feb. 11—California Canners and Growers annual meeting, San Francisco.—R. K. Jennings, Sec'y-Treas., 260 California St., San Francisco.

Feb. 15-19—National Peach Council annual convention, La Court Hotel, Grand Junction, Colo.—Harold J. Hartley, Sec'y-Treas., Carbondale, Ill.

Feb. 17-19—Northwest Perishable Loss Prevention Short Course, Wenatchee-Yakima, Wash.

Feb. 23-24—Southeastern Pecan Growers Association 52nd annual convention, Mobile, Ala.—Henry Jennings, Sec'y, Dawson, Ga.

AMERICAN FRUIT GROWER

MARKETING

AN AMERICAN FRUIT GROWER REPORT

Vodka from Pears

RUSSIANS make vodka from potatoes. However, most domestic vodka is distilled from corn. Now an Oregon firm is turning out vodka from the juice of pears rejected by canneries.

Telephone Supermarket

WHEN customers shop at Hazan's Supermarket in Los Angeles, Calif., they never enter the store. Groceries are ordered by phone or mail and delivered by truck.

Man behind this novel merchandising plan is Morris Hazan, president and owner of the store. His theory that customers are willing to pay a small delivery charge for the convenience of shopping at home has paid off in a \$2.5 million annual volume business—in just one year.

A fleet of seven International Metro trucks makes deliveries the day orders are phoned in. Active customer list totals 2500 each week. To stimulate sales and keep customers informed of special buys, 3500 handbills are sent to customers. When housewives phone, order-takers suggest staple items or special values not mentioned on the handbills.

Caught Off Guard

MICHIGAN apple growers were caught off guard when this year's production exceeded the crop estimate.

Most growers overpicked heavily on Macs—in some cases by as much as 100% of their anticipated production, with most of the overage going into storage. This resulted in a critical shortage of field crates for harvesting, selling, or storing Jonathans and Delicious. Some growers have been forced to "dump" quickly ripening fruit on the market at sacrifice prices.

To avoid a similar crisis in the future, Michigan State Apple Commission has urged USDA Federal-State Crop Reporting Board to take steps for improving the accuracy of crop estimates. Any sudden increase in sizing should be circulated as quickly as possible to the industry so that appropriate countermeasures can be taken ahead of time to forestall marketing and harvesting difficulties, say commission spokesmen.

Good for Children

THE citrus industry's persistent emphasis on the health values of its fruit has made a lasting impression on homemakers. A nationwide market test conducted by USDA to determine consumer preferences for citrus fruits, avocados, dates, and raisins revealed that the majority of homemakers favor oranges because they are healthful, flavorful, and good for the children.

Citrus Co-ops Unite

MERGER of three California citrus marketing groups serving growers in all sections of the state as well as Arizona took place last month when the Exchange Orange Products Company, of Ontario, and Exchange Lemon Products Company, of Corona, united with Sunkist Growers, Inc., Los Angeles.

DECEMBER, 1958

Grapefruit Spoon

INTRODUCTION and promotion of the serrated-tipped grapefruit spoon by Florida Citrus Mutual has played an important role in boosting the popularity of grapefruit.

Another factor which has contributed to the rise of Florida grapefruit is the emphasis on quality. State legislation was enacted to provide for a higher juice content requirement for grapefruit shipped in fresh form, thus making the product more attractive to the consumer.

With better fruit, Mutual increased its advertising budget by adding 2 cents per box (up to 6 cents) to the assessment. Reopening of export markets also helped to boost sales.

As a result on-tree prices in the state increased by 75% during the two seasons 1956-57 and 1957-58 as compared with the three seasons 1953-54 through 1955-56.

Reject Marketing Order

WASHINGTON State apple growers rejected by a 2-to-1 vote the proposed marketing order under which grower committees could have set up controls on sizes, grades, and time of marketing.

Book Review

Land, 1958 Yearbook of Agriculture, published by USDA. \$2.25. Available from Superintendent of Documents, Government Printing Office, Washington 25, D. C. Each U. S. Senator and Representative has a limited number of copies available for free distribution.

What is happening to our land today—considered by many Americans as our number one economic and social development problem—is treated from a number of angles in this 686-page illustrated volume.

Written by 93 authorities, the 67 chapters describe in nontechnical language how we acquired our domain and its importance in history.

Other topics include the extent and value of Indian, state, and public lands; land use problems in Alaska, Hawaii, Puerto Rico, and each section of the continental United States; forested lands; and the acquisition of land for military purposes, highways, subdivisions, and airports.

Economic aspects of land tenure are discussed—types of ownership, valuation, appraisals, credit, insurance, buying and selling property, taxes, along with land conservation, the real estate market, and income from farm land.

Two special picture sections are a feature of the yearbook. One illustrates the history of our land use from the landing of the colonists to the present. The other shows the use of airphotos in determining the extent of changes in land use. A number of charts, maps, and tables are included.

LOPPING SHEARS

PRUNERS

- ANVIL TYPE
- HEAVY DUTY



SNAP-CUT
No. 1149

\$7.50

New, light weight heavy duty anvil type lopping shears. Alloy metal handles. 100% guaranteed. Cuts limbs up to 1 1/4" diameter.



SNAP-CUT
No. 119

\$3.25

The original anvil type pruner. A terrific tool. Cuts up to 3/4" branches. All parts replaceable.

"ALL PURPOSE" TREE PRUNER (No. 3)

An easy pull cuts 1" branches, spring opens blade for next cut. Lever action. Tempered cutlery steel blade. Heat treated steel head riveted to pole.

6 foot\$5.25
8 foot\$5.75
10 foot\$6.25
12 foot\$6.75



TIFFANY
LOPPING
SHEARS

30"—\$8.00
25"—\$7.50

Double cut "drawn in" cutting action. All forged, improved bolt and nut joint. Through tang handles.

NEW, FINEST EVER PRUNING SAWS



No. 1922
22" blade—\$5.90



No. 514
14" blade—\$3.75

Fastest, easiest cutting saws for orchard use. Swedish steel blades. Complete line of 6 models covering all requirements up to chain saw work.

Quality Tools
SEYMOUR SMITH
Since 1850

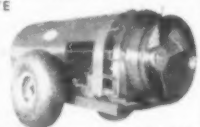
See your
dealer—or
write for free,
descriptive
literature.

SEYMOUR SMITH & SON, INC.
Oakville, Connecticut, U.S.A.

AIRMATER "420"



AIRMATE



AIRMATE BLOWER



HI-PRESSURE SPRAYER



DO YOU HAVE A FRIEND IN YOUR ORCHARD?

If you do, you can appreciate the dependable sturdiness built into them and you profit from the efficient spray-pattern control that means top quality fruit.

If you don't, there's a Friend dealer near you to help you select the size and type you want. Get in touch with him . . . he wants you to have a FRIEND.

Michigan State Horticultural Society 88th Annual Meeting, Civic Auditorium, Grand Rapids, Michigan, Dec. 2-3, 1958.

SKID TYPE



FRIEND

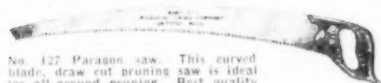
MANUFACTURING CORP.

Gasport, N.Y.

Canadian Distributor
LEE EQUIPMENT CO.
Stoney Creek, Ont.

Proper Pruning Will Protect Your Trees

Damage by ice and wind often can be avoided, or the effects lessened, by use of correctly designed pruning tools, lopping materials, and tree wound dressing.



No. 127 Paragon saw. This curved blade, draw cut pruning saw is ideal for all-around pruning. Best quality saw steel. Easy grip handle.

18 in. \$4.85	24 in. \$6.00
22 in. 5.40	26 in. 6.20

Delivered in U.S.A. No C.O.D.s please

Catalog No. 38A free on request.

BARTLETT MFG. CO.

3044 E. Grand Blvd., Detroit 2, Mich.

GOOD NEWS FOR FRUIT GROWERS

Reduced prices on fruit trees for fall and spring planting! Write today for quotations.

MAYO BROS. NURSERIES

DEPT. AF-1

FAIRPORT, N.Y.



If it's for an orchard large or small we have it. We would like to send you our latest free catalogue!

Write to:
Tyson Orchard Service
A complete line of orchard tools, equipment and chemicals.
Flora Dale, Biglerville, Pa.

FREE 32-Page COLOR ILLUSTRATED CATALOG



Of C & O Grower-Approved "Better Fruit Varieties"

Proven to Bring You Greater Fruit Profits

FEATURING THESE

**C&O
Exclusive
Brands**

- * ROYAL RED DELICIOUS—Plant Pat. No. 1278. The oldest proven variety of the new early coloring super red sports.
- * NERO RED ROME—Plant Pat. No. 1414. Early coloring, starting with stripes which are scarcely visible in the bright red finish color.
- * REDSPUR DELICIOUS—Patent Applied For. New super red sport, spur-type, semi-dwarf tree with exceptional heavy annual production. Supply limited.

SOLD ONLY BY C & O NURSERY

Columbia & Canogan Nursery

P.O. Box 116

Wenatchee, Washington

NEW FOR YOU

Multi-Purpose Cutter

Dollar-stretching versatility is the motto of the new Gehl Shred-All Cutter, and it seems to me the unit certainly fits this description. It can be used for green crop feeding, mulching, shredding, cleaning up stubble, cutting weeds and cover



crops, clearing brush, and shredding orchard prunings. This multi-purpose cutter cuts a 60-inch swath through the toughest material, and its cutting height can be adjusted from 1 to 9 inches. The drawbar is adjustable to give you complete offset cutting, which is so necessary in orchard clipping. The basic unit can be equipped with a loading hood for blowing cut materials into wagons. Loading hoods, available with a choice of two deflectors, may be removed when you want to use just the basic cutting unit for clean-up jobs. I am sure you will want more information on this new cutter, and to get it, write Joe Ecker, Gehl Bros. Mfg. Co., West Bend, Wis. He'll be glad to hear from you.

Be sure to mention **AMERICAN FRUIT GROWER** when writing to manufacturers.

Make It Easy

On our experimental orchard, we have been using a grubbing tong for the removal of overage trees with success. The tool is well made and removes roots and trees up to 10 inches in diameter. A chain from the tool to the tractor makes a single hitch. The tongs cost only \$24.95, and I think you will agree they are worth twice that much. If you want a real work saver or more information, write Phil Bradstock, Shox-Stok, Inc., Wellington, Ohio.

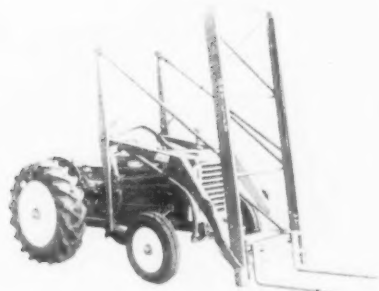


AMERICAN FRUIT GROWER

- SUPER-SIX SKY LIFT
- SHRED-ALL CUTTER

New Lift Device

Pictured above is a new lift device which has come to my attention. It is called the Super-Six Sky Lift. This handy apparatus is ideal for stacking, fruit picking, tree trimming, and as a pallet fork



or a work platform. Depending upon the type of loader to which it is attached, it will lift as much as 2000 pounds 11 feet, or 1000 pounds as high as 19 feet. This new unit can be purchased at the low cost of \$295. If you'd like more information, write J. H. Breman, Super-Six Mfg., Inc., 695 Lowry Ave. N.E., Minneapolis, Minn.

Vertical Mulching

Growers who have subsoiled their orchards realize the value of deep cultivating. Still, subsoiling does not do the perfect job. It has been shown through actual field tests that vertical mulching



on the orchard floor soon pays for itself in bigger yields. The Verti-Mulcher is an implement growers will use in the years ahead in increasing numbers. If you will write M & W Tractor Products, Anchor, Ill., the firm will send you full details. The machine which I have seen in use does a beautiful job and is built to perform for many years.

DECEMBER, 1958

"Just what the tree Doctor" **ORDERED!"**



FORESTER

They prescribe

HKP®
PORTER PRUNERS
of course!

POINT CUT



POLE PRUNERS

FORESTER BRUSH CUTTER The most practical pruner for all-purpose cutting and pruning. It has the exclusive Slide Shift that gives EXTRA POWER instantly! Leaves flush, flat-topped stumps — cuts roots — does heavy pruning — cuts up to 2" green wood faster, easier. Built the PORTER way, to stay sharp and last long. Two sizes — 27" and 34".

POLE PRUNERS In the big PORTER line there are Pole Pruners to meet any requirement. Heads with long and short arm, with or without pulleys, for cutting up to 1" green wood. Two you should own are Type QP, with short arm and pulley for cutting in thick growth, and Type RP, with long arm and pulley, for extra leverage in open growth.

POINT CUT A versatile pruner, with a long easy reach, and the ability to give capacity cuts of 1 1/4" at the throat and snip small suckers at blade points. Cuts quick and clean, with no damage to bark. Light weight — non-tiring action. Blades and handles of heat-treated alloy steel. Two sizes — 20" or 24".

2890S LOPPING SHEAR Lightweight, tough and perfectly balanced. Narrow head gets into difficult crotches. Tough hickory handles can be cut to any desired length by user. Cuts up to 1 3/16" with minimum effort.

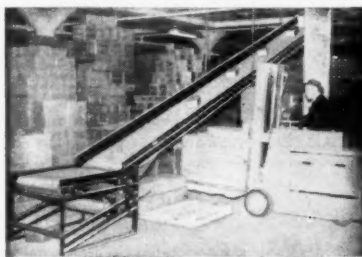


LOPPING SHEAR

H. K. PORTER, Inc.

Somerville 43, Mass.

LIFT OR LOWER — FLOOR TO FLOOR — WITH A STANDARD INCLINEBELT



Move boxes, cases, cartons, sacks or bundles from basement to first floor, or any floor to floor — continuously with the Standard Inclinebelt. Compact — simple to install — minimum maintenance and attention. Lifts or lowers 10 to 20 lbs. of live load per ft.; floor elevations of 8 ft. to 14 ft. 6 inches inclusive; two belt widths to handle commodities 15 1/2 inches to 25 1/2 inches wide. Electric motor operated. Write for INCLINEBELT Bulletin — address Dept. S-12.

STANDARD CONVEYOR COMPANY

General Offices: North St. Paul 9, Minn.
Sales and Service in Principal Cities



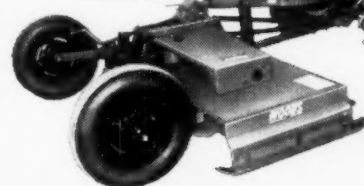
GRAVITY & POWER
CONVEYORS

On-the-spot brush disposal with

WOOD'S Offset

**ROTARY MOWER
SHREDDER**

Model 080



Eliminates buck raking and hauling!



Perfect for
mowing under trees

**CUTS
PRUNING TIME**

50%

Does all orchard
mowing with ease

- Cutter extends 5-1/4 ft. to right of hitch point
- Cuts 6-7/3 ft. swath
- Twin rotary blades
- Mows up to 4 acres per hour
- Shreds all prunings up to major cuts . . . chopped residue quickly returns to the soil

WOOD BROTHERS MFG. COMPANY
26812 South 4th Street Oregon, Illinois

Specialists in the Manufacturing of
Tractor Powered Rotary Mower Shredders

Announcing the
CONNELL RED

A new high quality apple

Stores with the best—for the April, May and June market

Color—90 to 100% in Wisconsin—medium to dark red.

Quality—high, always retains a firm crispness.

Size—large, shape and size of Rome.

Hardy—Withstood 40 below without damage—official reading.

Availability—being grown in volume from East to West Coast.

Write for quotations and names of Nurseries to

CONNELL, SCHNEIDER, CONNELL, INC.

Box 89,

Menomonie, Wis.

DWARF'S

Contract Budding

and

Understocks

OUR

SPECIALTY

Apples — M II VII IX

Pears — Quince A B C

GET OUR PRICES

SEVEN DWARF'S NURSERY

Box 201

Medford, Ore.



DWARF FRUIT TREES

Best heavy-producing varieties, also standard fruit trees, berries, grapes, shade and nut trees, ornamentals. Our thirty-five years experience Guarantees Satisfaction. Write for free catalog.

Tualatin Valley Nurseries, Sherwood, Ore.



STRAWBERRIES

Allen's 1959 Berry Book tells best varieties for home and market, and how to grow them. Free copy. Write today.

W. F. ALLEN COMPANY

105 West Evergreen Ave., Salisbury, Maryland

FRENCH-AMERICAN GRAPES, FRUIT TREES

Vigorous Munson, French and American grape plants. New and Missouri Dwarf grape varieties. Also peaches, and Malboma Lilies. Free catalogue.

MT. TOP NURSERY, RT. 1, ALTUS, ARKANSAS

**The How-To Book
on STRAWBERRIES**

by Robin Wyld

112 illustrated pages of strawberry facts. Simple and easy-to-follow. Useful to the commercial as well as the hobby grower. Over 500 copies sold and readers report it the best book on strawberries now available.

\$1.50

A 15% discount is allowed if two copies are ordered. Or include a second book in your order, to take advantage of the discount. This offer expires December 10, 1958.

AMERICAN FRUIT GROWER

Willoughby, Ohio

Take advantage of our
BEST GROWING SEASON

in years, for strong stock now growing on our 500 acre grounds. 50 years experience with nationally tested **APPLE, BERRIES, PEACH, CHERRY, OZARK PLUM**. All varieties. Guaranteed hardy & disease resistant.

Agents Wanted. We advertise nationally. Earn money for full or part time. Write us. Send for our **BIG FREE CATALOGUE**. 56 pages, 48 in full color. Special bargains on each page for roses, fruits, shade trees, ornamentals. Special rates for commercial growers. Home owners buy where professionals buy! Write today. Send no money.

NEOSHO NURSERIES

910 COLLEGE

NEOSHO, MO.

T. B. West & Son

MAPLE BEND NURSERY
FRUIT TREES ORNAMENTAL
SMALL FRUIT PLANTS TREES AND SHRUBS

Also Dwarfs in the Popular Varieties

PERRY, OHIO

PEACH APPLE TREES LOW AS 20c

Cherries, Peaches, Plums, Nut Trees, Strawberries, Blueberries, Dwarf Fruit Trees, Grapevines, etc. Shrubs, Evergreens, Shade Trees, Roses 25c up. Quality stock can't be sold lower. Write for FREE color catalog and \$2.00 FREE bonus information.

TENNESSEE NURSERY CO., BOX 4, CLEVELAND, TENNESSEE



STRAWBERRY PLANTS

Write for catalog, fully describing all varieties, with best methods of growing them. Satisfaction Guaranteed.

J. H. SHIVERS, Box A-585, Allen, Md.

**Are YOU
a Nursery Salesman?**

Add to your income by selling **AMERICAN FRUIT GROWER**. It's a logical combination, for **AMERICAN FRUIT GROWER** will help your customers get the best results from the nursery stock you sell them.

Write today for our liberal, nursery agents' plan. Address:

EDWARD MEISTER, Circulation Manager

AMERICAN FRUIT GROWER

Willoughby, Ohio

MODERN PIONEER

(Continued from page 9)

help from the horticulturist and from the monthly bulletins.

"I terraced the land I'd set to orchard, but some was too low even for crops, so I seeded it to grains and bought a combine. The hullings were hauled to the orchard and kept my apple trees mulched heavily. It built up soil fertility—also taught me what pine mice could do."

After several years, Tom persuaded Martha, that "certain young teacher," to become Mrs. Thomas Anderson. She worked shoulder to shoulder with him until in 1941, they were selected as sweepstake winners over 60,000 farm families in the Plant to Prosper Contest conducted by the *Memphis Commercial Appeal* over a three-state area. Tom had bought an additional 100-acre tract and had diversified the land with cotton and cattle.

The apple orchard had just begun to pay off in profitable crops when a midsummer hailstorm reduced this crop to a poor cull grade. Like a true fighter who had learned to "roll with the punch," Tom bought a cider press and juggled the crop through stores and stands over a wide area. After being forced into the cider business, he built (contrived might be a better word) filtering and pasteurizing equipment to meet the demand for over 10,000 gallons a year. Relieved of the culls, the grade of packed fruit was upped steadily and has made selling easier and more profitable, especially in the big crop years.

Tom has been a member of the Flying Farmers clan for a dozen years or so. He has a small, four-place plane which he uses mostly for business trips, even to rushing fruit or cider to the roadside market he started some years ago near Whiteville on busy U.S. Highway 64. It's only 10 miles by air but 25 by road.

Tom and Martha have two children, Carolyn, 14, and Tom, Jr., 12. They're dyed-in-the-wool fruit growers, too, and have attended the annual state hort meetings almost every year.

Tommy drives a jeep or a motor scooter over the orchard with skill and confidence, and Carolyn started a private bank account after taking full responsibility for the snack stand during the strawberry harvest last year. Five minutes after their school bus stops, they're in the packing shed working like regulars to the day's end.

Tom's early idea that he would learn all he could by visiting other orchards wasn't just a whimsy. He and Martha attended the hort society's first organized tour of east Tennessee orchards in 1939 and have "made" almost all of the tours since

then into the Carolinas; up into Virginia; over into Arkansas and Missouri; and up through Kentucky, Indiana, and southern Illinois; the latest, to Henderson for the Midwest Pruning Conference this year.

On the summer tour in Illinois three years ago, little Tommy said, "Daddy, we haven't enough little peach trees!" True, there were only 15 acres of peaches then, all past their prime, but they have added about 5 acres more, plus little apple trees, to boost orchard acreage to near the 100 mark.

"We decided early," Tom says, "that there's not enough profit in shipping fruit, at least from an orchard as small as ours. We sell everything f.o.b. We make our contacts with wholesalers in several cities and keep our grades up to hold them as regular customers. I sold \$20,000 worth of apples one year to a wholesaler in Mississippi. We built our 5000-bushel cold storage in 1954, so we could keep the apples in good condition for this kind of selling.

"But the storage is as valuable for peaches as for apples—tree-ripened peaches don't lose quality in cold storage, and peaches sell best after the peak harvest period is over."

Tom found another saving from his storage when he packed apple pomace from their cider plant into old cartons

and "cold-storage" it for months, to supplement his cattle feed.

How many Midwest fruit growers made a profit in '55 after the late March freezes took their crops? The Andersons bought a new station wagon that summer and made a trip to California, Oregon, and Washington.

Tom primarily wanted to find out how Wenatchee growers could produce their fine apple crops. He studied their pruning, irrigation, cover crops, and thinning, and put many of these into practice in 1956. Asked if it wasn't a pretty expensive trip, Tom said, "It paid me better than any apple crop I ever raised!"

His apple crop in 1956 sold at prices over a dollar a bushel more than those of any other grower in that area, yet the per-bushel cost of the extras which went into this crop figured roughly 15 cents a bushel over his 1954 costs. For one thing, he previously wasn't making proper use of the sprinkler irrigation system during preharvest period to get the best possible finish on his fruit. Wenatchee pruning and propping showed him how to get more sunlight into the fruit. Wenatchee growers, Tom also learned, allowed their cover crops to grow rank, draining any excess nitrogen from the soil to give the fruit deeper color.

Last summer, with another bumper crop in prospect, a 2000-bushel room was added to the storage to hold fruit undisturbed for late marketing, but they sold out before the end of September.

"I sold all my larger size Red Delicious to one man at \$6.50," says Tom. "He took truck after truck until all I had left were the smaller sizes with less color. I didn't want to hold these, and a trucker who tried a load at \$5.00 a bushel came back time after time until the lot was gone. By then there wasn't enough left to need either storage room."

Asked about this year's selling costs—advertising—Tom says the only cost had been for one telephone call—something like 35 to 50 cents!

By what yardstick is fruit growing success measured? Large orchards? Heavy production? Spacious home and bank account? If so, Tom's 200-acre spread with less than 60 acres in bearing orchard, attractive but modest home, and only average production per acre won't qualify.

Still, he qualifies as a nominee for success. This untrained farm lad's convictions, initiative, courage, hustle, and hard, steady work have brought him far up the ladder. The State Horticultural Society placed its confidence in him when members elected him president in 1952. **THE END.**

There's a Bonus
in every Bushel
When You Plant
these
4 Apple Varieties
Industry
Proven

*Propagated and Sold Only By:

Van Well Nursery

WENATCHEE, WASHINGTON

P. O. BOX 858

DECEMBER, 1958



RED KING—Brauns Delicious*
U. S. Plant Patent No. 1411

Red King trees of second, third and fourth generations are now producing in most fruit growing areas of the nation and many foreign countries. Red King continues to show the same remarkable color characteristics found on the original sport limb, making it the champion of the new super sports.

WELLSPUR DELICIOUS
Trade Mark Registered

The Wellspur is the newest of the new commercially propagated Spur-Type Red Delicious Super Sports. It develops its fruit on many fruit spurs along the heavy wood of the tree, is a heavy annual bearer, naturally semi-dwarfing, and shows winter-hardy characteristics. Fruit is of early, solid red color.

BARKLEY RED ROME*
U. S. Plant Patent No. 1470

A mutation of Rome Beauty, the Barkley is a new and different Red Rome. The fruit of the Barkley Red Rome has consistently shown better color and size than other Red Romes in the same growing area. Trees of both the second and third generation continue to show remarkable size and color characteristics.

VAN WELL RED WINESAP*

The Van Well Red Winesap colors to a beautiful dark red, has exceptionally good keeping qualities and is a prolific bearer of large sized apples—a definite improvement over the ordinary variety.

GROWERS OPPORTUNITY PAGE

Only 25¢ a word for one-time insertion; 20¢ a word per month for two-time insertion; 15¢ a word per month for four times or more. CASH WITH ORDER. Count each initial and whole number as one word. Copy must be in the 15th of the second month preceding date of issue. You can use our companion publication, AMERICAN VEGETABLE GROWER, in combination with AMERICAN FRUIT GROWER for only 5¢ a word more.

AGENTS WANTED

PACIFIC NORTHWEST'S LARGEST FRUIT tree nursery needs spare-time agents to sell complete line of quality fruit trees. Take orders for the newest and latest patented varieties. No experience necessary. Write today. Sales Department, VAN WELL NURSERY, Wenatchee, Washington. WAXES FLOORS WITHOUT "WAX." NEW invention. No more floor wax to buy. Sensational seller. Samples sent on trial. KRISTEE 104, Akron, Ohio.

BOOKS

THE HOW-TO BOOK ON STRAWBERRIES. The layman's primer, the professional's reference and everyone's factual guide to more and better strawberries. \$1.50. AMERICAN FRUIT GROWER, Box 159, Willoughby, Ohio.

FOR EDUCATION, PLEASURE AND profit, read "ADVENTURES IN BEEKEEPING." A true story. \$2.00. ROBERT OGLESBY, R.R. 1, Middletown, Ohio.

BERRY BOOK: "THIRTY YEARS OF BERRIES." Raspberries and Strawberries. 84 pages, price \$1.00. Roy Turner, 1525 S. Livingston St., Peoria, Ill.

DRUG MEDICINES DISAPPOINT, DISILLUSION. Why defeat nature's spontaneous recovery efforts? New 25¢ book, MEDICINES OF NATURE describes seven universal curatives freely available everywhere. M-PRESS, Coalmont 143, Tennessee.

BUSINESS OPPORTUNITIES

GUARANTEED MARKET! EARN READY cash raising fishworms for us! Backyard, garage, basement! We buy your crop! Exciting details free! OAKHAVEN-25, Cedar Hill, Texas.

EARN CASH FROM STRAWBERRY SALES! Get our How-To Book on Strawberries that gives common sense treatment of the must and must-not in strawberry culture. Fully illustrated. \$1.50. AMERICAN FRUIT GROWER, Box 159, Willoughby, Ohio.

FOR SALE: MODERN BASKET FACTORY. Have been in business for 50 years. Price \$32,000. Owner retiring. Write ANDOVER BASKET MFG. CO., Andover, Ohio.

GRAPE GROWERS, I HAVE SEVERAL grape farms on excellent growing sites in the Lawton area. Local processing markets. Write LEONARD HILL, Lawton, Michigan. Galesburg Realty.

CIDER MILLS—PRESSES

MODERN AUTOMATIC ELECTRIC CIDER presses for roadside stands and small orchardmen. Presses 10 gallon to 15,000 gallon capacity. Everything for the cider maker, ball bearing graters, press racks, cloths, packing, valves, labels, filters, posturizers, bottling equipment. Write for supply catalogue. W. G. RUNKLES' MACHINERY CO., 185 Oakland St., Trenton 8, N.J.

CITRUS FRUIT

LUSCIOUS, TREE RIPENED CITRUS AS gift for yourself or friends—one kind or any combination. \$0.00 delivered for one full bushel. BAKER GROVE, Box 1012, Eustis, Florida.

ENLARGEMENTS

TWO BEAUTIFUL OILCOLOR 8 x 10 ENLARGEMENTS from any photo or negative (returned) \$1.00. PORTRAITCO, A780, Sweetwater, Texas.

FOR SALE—EQUIPMENT & SUPPLIES

BUY SURPLUS DIRECT FROM GOVERNMENT at tremendous savings. farm tools, machinery, truck, jeep, tractor, power units, hundreds others listed in our bulletin. Price \$1.00. GOVERNMENT SURPLUS SALES, Box 169ARG, East Hartford 8, Conn.

FOR SALE: SEVERAL GOOD USED POWER sprayers (Myers and Bean) which have been traded on new Myers Concentrate Sprayers to our Ohio dealers. We also have in stock an especially good used Buffalo driven concentrate machine. WATER SUPPLIES, Ashland, Ohio, Phone: 2-1565.

SPRINKLER IRRIGATION SYSTEM. WILL handle 400 acres. 4 GMC Diesel motors, pumps and equipment. 85% new condition. price of \$35,000 is less than half today's dealer cost. LELAND KING, Clarksville, Arkansas.

STORAGE: DESIGN AND PLANS AVAILABLE for controlled atmosphere, cold or freezer use. Will construct or supervise, furnish materials and refrigeration equipment, no obligation. Write JIM CANTY & SONS, INC., 813 Broadway, Toledo 9, Ohio.

USED SPRAYER SUPPLY UNITS. RE-built 4 cyl. engines, 500 gal. tank and hoses. Bean 35 GPM sprayers, JXD speed sprayers. N. BUDD SCOTT & SON, INC., Delanco, N. J. SENSATIONAL GARDEN TRACTOR. HOES between plants and rows, including strawberries. Eliminates hand hoeing. Standard in size, yet entirely different. Patent 2742840. Also tills. Fantastic offer to first few inquiries. AUTO HOE, DePere 8, Wisconsin.

HOWARD STRAWBERRY ROTAVATOR. COST \$1020.00. Used seven hours. Or will trade for irrigation power unit. M. RICHARDS, Central Lake, Michigan.

USED ORCHARD SPRAYER. IRON AGE, power take-off, 150 gallon, good shape. \$350.00. DANIEL DERRINGER, Route 1, Farmersville, Ohio.

PEASE TRIPLE PEALER, SLICER, TANK, elevator and shaker. Everything necessary for fresh sliced apples or freezing. Cheap. REMARKS ORCHARDS, Kingsville, Ontario, Canada.

INVENTIONS WANTED

ARE YOU INTERESTED IN OFFERS FROM reliable manufacturers for your invention? Patented, unpatented. HARVEY ASSOCIATES, Dept. 7A, Cambridge, Maryland.

MISCELLANEOUS

BANANA PLANT. GROWS ANYWHERE—indoors, outdoors. \$1.50. Postpaid. SOPHIA SULEN, Ladylake, Fla.

BUY U. S. GOVERNMENT SURPLUS. WHOLESALE prices! Illustrated catalog free. Box 22E80, Thomasville, Penna.

SHELLED PECAN HALVES—DIRECT FROM Orchard. \$1.20 per quart postpaid. Three quart minimum order. Money refunded if not satisfied. HOWELL ORCHARDS, Camp Hill, Alabama.

SAVE 80% ON YOUR CAR AND TRUCK upkeep. Monetize data 25¢. Address: FRANZ, 1210 Magnolia Avenue, Los Angeles 6, Calif.

PECANS—LARGE HALVES, POSTPAID, guaranteed, pound, \$1.55; three \$4.30; five \$6.75; ten \$13.00; fifteen \$19.25. Special prices churches, clubs. SOUTHLAND PECAN, Rt. 4, Box 552, Bessemer, Alabama.

FREE SAMPLE RAZOR BLADE. FROM Germany. Revolutionary accomplishment. First time in U.S.A. Agents Wanted. PAUL WEIL, Dept. B29, Box 157, New York 31.

OF INTEREST TO WOMEN

LEARN PROFESSIONAL CAKE DECORATING. Details free. DECO-SECRETS, Venice 33, Calif.

SEW APRONS AT HOME FOR STORES. NO charge for material to fill orders. In our fourth successful year. Write: ADCO MFG. CO., Bastrop 8, Louisiana.

ORCHARD FOR SALE

65 ACRES. WONDERFUL INVESTMENT property. 3,500 early variety plums for northern market. 200 papershell pecans. Equipped. Manager's home. This is suburban land with 2,000 feet U. S. Highway frontage. \$20,000 home, will sell separately. W. D. HUMPHREY, Route 5, Palestine, Texas.

APPLES. 100 ACRES. HALF 8 YEARS OLD. Best varieties. New buildings. 15,000 bushel cold storages. Four water systems. Equipment. Finest location. Bargain. Request details! ELLENWOOD ORCHARDS, Carpenter, Ohio.

APPLE AND PEACH ORCHARD APPROXIMATELY 150 acres. Complete modern equipment including 30,000 lb. Cold storage. Inquiries invited. LENAPE ORCHARDS, Barto, Berks County, Pennsylvania.

LONGNECKERS' FRUIT FARM. AT EDGE of town: Two Thousand Young fruit trees. Best new varieties. Home Market for fruit. Only Diversified Fruit Farm, within 65 miles. Seven room house, only 125 ft. from New Highway. City water. Bathroom, also water for irrigation. 27 acres. Reason for selling: I am eighty years old. Tractor, sprayer, tools & supplies included, all for \$19,000. E. LONGNECKER, Farmington, Missouri.

175 WESTERN IOWA IMPROVED FARM including about 800 apple tree orchard. MRS. T. E. LAWRENCE, Harlan, Iowa.

PETS

FANCY PIGEONS, PARAKEETS, CANARIES, Doves, Mallards, Pairs free. IRA JONES, 724 Jewel, Danville, Illinois.

PLANTS & NURSERY STOCK

PEACH TREES! WELL-GROWN 4-5' ONE year peach trees budded on nematode resistant S-37 rootstock. Cardinal, Coronet, Redhaven, July Elberta, Sunhigh. 60¢ each wholesale. GRAMLING GARDENS, Five Chop Road, Orangeburg, S.C.

DWARF APPLE TREES. 24 VARIETIES and Dwarf Gorden Apple Trees. Priced low. BAUM'S NURSERY, RFD 4, Danbury, Conn.

PRUNING, GRAFTING FRUIT TREES

"PRUNING MANUAL". "GRAFTER'S HANDBOOK". Complete books on pruning, grafting fruit trees, plants. Each \$8.75 Postpaid. PHILLIPS BOOK COMPANY, Box 453, Roncetto, W. Va.

RABBITS

RAISE ANGORA, NEW ZEALAND RABBITS or mink on \$500 month plan. Free details. WHITE'S RABBITRY, Delaware, Ohio.

WANTED TO BUY

LATE MODEL GRADER WITH 30 FT. OR better return flow belt. (No bin type wanted.) Wayland preferred. HENRY HART, Naxon Road, Poughkeepsie, N.Y. Tel: G7over 1-2879.

OPPORTUNITY ADS

BUY, SELL AND TRADE—Readers and business firms will get top advertising value at low cost from AMERICAN FRUIT GROWER "Opportunity Ads." These classified ads are widely read, widely responded to by AMERICAN FRUIT GROWER'S high-income readers throughout America. Our classified advertising department will run your ad under any heading and will guarantee correct insertion.

RATES: For one insertion, 25¢ per word. For two insertions, 20¢ per word per month. Four insertions, 15¢ per word per month. Count each initial or whole number as one word. CASH WITH ORDER. You can use our companion publication, AMERICAN VEGETABLE GROWER in combination with AMERICAN FRUIT GROWER for only 5¢ a word more.

AMERICAN FRUIT GROWER reserves the right to reject or alter any copy which does not merit its standards. Ads will be inserted in first available issues unless preferred month is specified by advertiser. Closing date is 15th of second month preceding date of issue.

AMERICAN FRUIT GROWER
Willoughby, Ohio

RUPTURED?

Be comfortable working, playing night or day! "Cushion of Air" Appliance guarantees security or costs you nothing! Facts free! Write now! BROOKS CO., 123 State St., Marshall, Mich.



AMERICAN FRUIT GROWER

100th BIRTHDAY

(Continued from page 12)

problems typical of the Missouri Ozarks. One of its charter members, George Husmann, a grape grower, was the first professor of horticulture at University of Missouri, and the society's first president, Norman J. Colman, was the first U. S. Secretary of Agriculture.

Colman was appointed U. S. Commissioner of Agriculture by Grover Cleveland in 1885, and when the position was changed to that of secretary of agriculture in 1889, he became the first cabinet member representing agriculture. During his administration as commissioner and secretary, Congress passed the Hatch Act supporting agricultural experiment stations, and Colman organized the Association of American Colleges and Experiment Stations and the Office of Experiment

MISSOURI'S FRUIT GROWING LEADERS

NORMAN J. COLMAN, of St. Louis: first president of Missouri State Horticultural Society and first U.S. Secretary of Agriculture.

C. C. BELL, of Boonville: an organizer and first president of International Apple Association.

PAUL STARK, Sr., of Louisiana: originator of "Apples for Health" movement and an organizer of National Apple Institute.

KIRK L. KELLER, of Creve Coeur: early president of National Apple Institute during its difficult formative years.

PATTERSON BAIN, of McBoine: apple grower, former secretary and president of society, now most active in apple merchandising in Missouri.

SMITH PETERS, of Waverly: apple grower, former society president, chairman of state apple merchandising program.

W. R. MARTIN, Jr., of Columbia: secretary of society since 1929.

Stations. Through his efforts, the various sections of the U. S. Department of Agriculture were reorganized and strengthened with well qualified men, many from Missouri and adjoining states.

The society exhibited fruits and wines at all the important fairs and expositions, including those in Paris, France; Amsterdam, Holland; Buffalo, N. Y.; San Francisco, Calif.; and, of course, the Louisiana Purchase Exposition in St. Louis, in 1904.

The society's exhibit in St. Louis in 1904 was most outstanding. It included 430 varieties of 21 different kinds of fruit, 196 varieties of apples, 124 varieties of grapes, and 72 varieties of strawberries. The total exhibit included 4800 bushels of apples and was on display for seven months. On October 4, 1904, 500 bushels of Jonathan apples were given away to the public at the exposition; while on August 16, 500

bushels of peaches were given away. No doubt these exhibits encouraged many settlers to come to Missouri, especially the Missouri Ozarks.

The history of apples in Missouri definitely reflects insect and disease problems, methods of control, and the attitude of the growers in accepting control measures. Missouri apples probably reached their peak of production in the late years of the 19th Century; it was reported that the 1897 crop of apples in Missouri was 9 million barrels valued at \$12 million. There were four crops during the 1910-15 period exceeding 10 million bushels, the 1912 crop exceeding 17 million bushels. In 1890 there were over 20 million apple trees in Missouri's farm and commercial orchards, seven of which exceeded 1000 acres in size. The leading varieties were Ben Davis, Gano, Ingram, and Jonathan.

As spraying became a necessary practice, practically all of the early 20th Century apple growers got out of the business and an entirely new group took over the industry. These men accepted spraying as a practice and changed to quality varieties.

With the depression of the 1930's, another great reduction in trees occurred, and the remaining growers emphasized quality packs and more vigorous merchandising. Kirk L. Keller and Paul Stark, Sr., were most instrumental in the formation and early survival of National Apple Institute.

From the early days of commercial apple growing in Missouri until about 1926, Missouri apples were packed almost exclusively in barrels. From 1926 until about 1950, they were packed almost exclusively in baskets.

The state's Apple Merchandising Act was passed in 1939. With the introduction of modern spray materials after World War II, quality fruit became the rule rather than the exception. By promoting quality apples packed in tray packs and film bags, Missouri regained its out-of-state markets. With good markets available, many Missouri growers installed irrigation equipment and modern fruit packing facilities.

Nurseries have always been an important part of Missouri horticulture, and Stark Bro's Nurseries & Orchards Co., in Louisiana, Mo., has had great influence on the apple production of the world with the introduction of its Delicious apples: Stark Delicious, Stark Golden Delicious, Starking Delicious, and Starkrimson Delicious. These varieties today make up nearly a third of the apple production in the United States and almost half of the fresh retail sales.

THE END.

You're Years Ahead When You Plant the Incomparable



DOUBLE RED DELICIOUS

The Classic of the New Red Delicious Super Sports

The Imperial is a tall tree short with over-all red bluish color and without stripes. Several days before normal harvest the Imperial reaches an extra heavy condition and holds on the tree until fully matured without becoming "bluish". Discovered in one of the Elton J. Gilbert orchards near Yakima several years ago, the Imperial tree has consistently produced good crops of well-sized, beautifully colored apples. The tree is now about 13 years old and is of normal size. Imperial keeping quality has been termed "excellent".

Trees Are Available Now in Limited Commercial Supply.



Write today for your free copy of our new 50th Anniversary catalog with its complete information about our consistently finer, Washington-grown nursery stock of all commercial varieties.

SINCE 1909

P. O. Box 1312 — Yakima, Washington

May Nursery

Exclusive Propagators of the
Imperial Double Red Delicious

STRAWBERRIES Catalog Free

Best commercial and home varieties. Most are virus-free—ALL certified and guaranteed! New 1950 Berry Book gives full description, valuable growing tips—also covers Blueberries, Raspberries, Grapes, Asparagus, Fruit Trees, Ornamentals. It's Free—write today.

RAYNER BROTHERS, INC. SALISBURY 2, MD.

DEPENDABLE FRUIT AND NUT TREES, SMALL FRUITS, ORNAMENTALS, and GENERAL NURSERY STOCK. WRITE FOR FREE CATALOG.

CUMBERLAND VALLEY NURSERIES, Inc.
Dept. 101 McMinnville, Tenn.

AMERICAN-FRENCH HYBRID GRAPES Eighty-four varieties Circular

C. A. Stoughton Vineyards, Fredonia, Kansas, Rt. 4

STRAWBERRIES

are ideal family income projects. One-tenth acre yields 650-900 quarts. Allen's Berry Book tells best varieties and how to grow them. Free copy. Write today.

W. F. ALLEN COMPANY
105 West Evergreen Ave., Salisbury, Maryland

Appreciation For Our Secretaries

THE winter months are here, when fruit growers and their families get together at the annual meetings of their respective state horticultural societies, talk over the season just passed, renew friendships and make new ones, and plan for the year ahead.

In all of this, the secretary of the local society is very much the key. He arranges the program, sets the tempo of the meetings, looks after the exhibits and the exhibitors, and greets everyone with a warm handclasp and a friendly smile.

We could not get along without these good people. Show them that you really appreciate them the next time you see them. They deserve it.

Competition Is Keen

IN 1956, according to USDA reports, there were 120 different classifications of fresh fruits and vegetables unloaded in New York City. Of these, 45 were fruits and 75 were vegetables.

Further, a recent survey by M. P. Rasmussen and B. A. Dominick, Jr., of Cornell University, emphasizes the tremendous development of prepackaging. Thus, 29 commercial prepackaging organizations in New England and the middle Atlantic states prepacked 36 different fruit and vegetable items—31 vegetables and five fruits from 1954 to 1955. Carrots amounted to 40 million packages, and spinach, 35 million.

This is the competition which the fruit industry is up against. We must recognize the facts and keep moving ahead to give Mrs. Consumer the product she wants in the form she wants it—and no questions asked.

Something to Think About

MODERN man is destined to live in a city, and he should glory in it, says President Clark Carr, of University of California. The city, he adds, is man's natural, most advantageous habitat—an exciting place to live, providing more opportunity for self-fulfillment than any other.

He foresees the "two-house family with an apartment in the city and a cabin in the country" and a four-day week.

Maybe so, maybe not so, but it is something to think about. Either way, people must eat, and the man on the land has his opportunities ahead to provide what the folks in the city need—at a fair profit.

Dress Up the Place

HARRY LUTZ'S attractive knotty pine office with its modern office furniture, colorful floor covering, and executive chair, at Carroll, Ohio, speaks volumes for his belief in the fruit industry.

Henry Ford once said that when a person loses confidence in himself or in his business, he is through. A little investment in dressing up the place becomes contagious. It raises the morale of all concerned—most of all the man who makes the decisions and makes the business what it is.

Growers Can Help

HOW can growers help the extension service effectively fulfill its obligation of supplying up-to-date and timely information?

W. J. Lord, extension fruit specialist, University of Massachusetts, says growers can co-operate by 1) reporting the occurrence of orchard pests, nutritional difficulties, or physiological disorders, and 2) by making the needs of the fruit industry known.

Fruit Growing is Such Fun!



Fruit Talk

There are now 36 marketing agreements and order programs in operation for fruit, vegetables, and tree nuts, covering more than 130,000 producers in 20 states, with crops having a farm value of \$870 million.

One of every five apples in the United States is a Delicious. Two out of every three are either Delicious, McIntosh, Winesap, Rome, Jonathan, York, or Stayman.

It is always an interesting sight, in England, to see fruit tree pruning being done by men on stilts.

For a good review of "Contract Farming and Vertical Integration in Agriculture," write USDA, Washington, D.C., and ask for Information Bulletin No. 198, July, 1958.

Supplementary soil applications of phosphate and potash, and foliar sprays of boron and phosphate are reported to have increased the sugar content of grapes in Russia.

Chemical thinning of apples in Australia has shifted biennial fruiting to annual production and higher two-year yields. Japan reports similarly.

Canadian tests show that pollen can be effectively distributed from hive inserts for apple, pear, and cherry.

Western German studies find little promise in their area for apple rootstocks MM104, 106, 109, and 111 where woolly aphid resistance of the roots is no advantage.

Peach seedlings from Okinawa have shown a degree of resistance to nematodes in Florida, according to R. H. Sharpe.

Leiser of California reports excellent protection and healing of exposed cambium in early summer by wrapping with polyethylene film.

Hartman and Hansen of California suggest the use of clonal lines of fruit tree rootstocks propagated from hardwood cuttings, following fair success with pears and plums, using indole butyric acid treatment on cuttings taken in fall and stored at 65° F. for four to six weeks.

World production of apples in 1958 was 630 million bushels, of which the United States contributed 126 million. France used 170 million bushels, more than the entire U. S. crop, in cider.

World pear production was 152 million bushels, with the U. S. producing 29 million and France utilizing 26 million for cider alone.

—H.B.T.

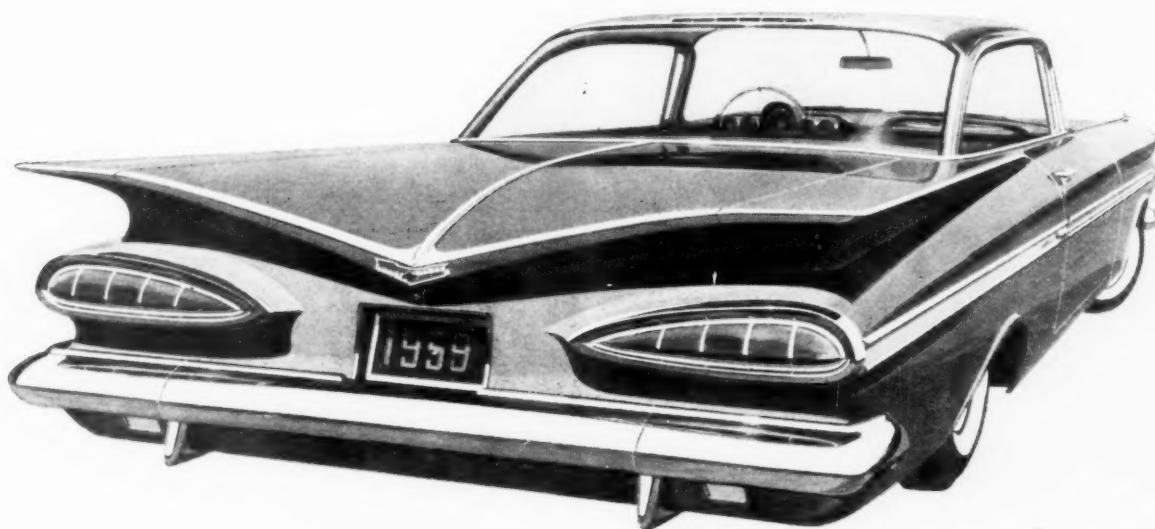
Coming Next Month Ninth Annual Yearbook Issue featuring

- Reviews and Forecasts of Apples, Pears, Stone Fruits, Citrus, Berries, Nuts
- New Fruit Introductions in 1958
- Queens of Fruit Blossom and Harvest
- Apple Planting Trends
- A Fruit Renaissance in Europe
- Problems the Fruit Industry Must Face in the Future



The Bel Air 4-Door Sedan with a roomier Body by Fisher.

NOTHING'S NEW LIKE CHEVY'S NEW!



Impala Sport Coupe—new down to its tougher Tyrex cord tires.

From the winging shape of its saucy rear deck to the simple elegance of its grille, this car shows you it's new in a decidedly different way. You get more of what you want—more spacious interiors, vast new areas of visibility, a longer lasting finish and all the solid virtues of economy and practicality you've come to expect in a Chevy.

One look at this '59 Chevrolet tells you here's a car with a whole new slant on driving. You see the transformation in its low-set headlights, the overhead curve of its windshield, the sheen of its longer lasting Magic-Mirror acrylic finish.

But to discover all that's fresh and fine you must relax in Chevy's wider seats, feel the loungelike comfort of its new interior, experience the hushed tranquillity of its ride.

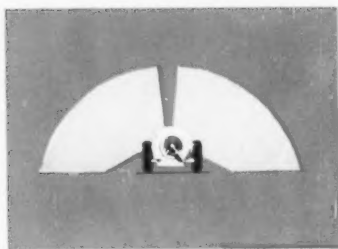
You'll also find bigger brakes, a new 6 that gets up to 10 percent more

miles a gallon and vim-packed V8's.

Your Chevrolet dealer's waiting now to show you the car that's shaped to the new American taste. . . . Chevrolet Division of General Motors, Detroit 2, Michigan.



*What America wants,
America gets in a Chevy!*



only Myers
air sprayers
give you

**complete
coverage!**

dilute • semi-concentrate • concentrate

Real **coverage protection** with a Myers Air Sprayer from tree trunks to tree tops. Myers engineered delivery design puts more protective chemicals on trees. Complete coverage without waste or run-off. Myers Air Sprayers save labor and time, too. One man operates tractor and sprayer. Specially designed fans distribute spray chemicals evenly from tree trunks to tree tops.



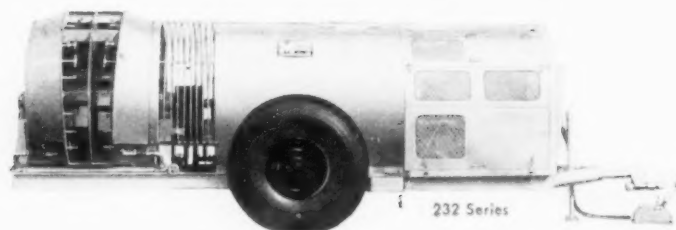
226 Series



A36 Series



224 Series



232 Series

Myers offers you "custom selection." There's a Myers sprayer designed especially for your own spraying requirements. Four basic series offer you a wide selection of sizes for dilute, semi-concentrate and concentrate application. Your Myers dealer will help you select the right sprayer to meet your tree protection and budget needs.

See for yourself

Your Myers dealer will be happy to demonstrate how Myers Air Sprayers will fit into your specific spraying needs. You are under no obligation. See for yourself how a Myers Sprayer will give you real coverage protection at low cost. If you haven't met the Myers dealer in your area, write The F. E. Myers & Bro. Co., 7112 Orange Street, Ashland, Ohio. We'll send you his name along with latest information on new air spraying equipment.

Myers

The F. E. Myers & Bro. Co.

ASHLAND, OHIO

KITCHENER, ONTARIO